

■ 编码器线缆、电力线缆组合一览表

| τ DISC     |                |                                  |                                  | 编码器线缆             |                    | 电力线缆                          |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|------------|----------------|----------------------------------|----------------------------------|-------------------|--------------------|-------------------------------|-------------------------------|----------------------|-------------------------------|----------------------|----------------------|----------------------|----------------------|-------------------|-----------------------|----------------------|----------------------|
|            |                |                                  |                                  | 绝对式<br>(马达移动用)    | 增量式<br>(马达移动用)     | 无屏蔽<br>(马达移动用)                | 带屏蔽<br>(马达移动用)                |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
| 系列         | 马达类型           |                                  | 马达型号 ※2                          | 记载No.<br>型号       | 记载No.<br>型号        | 记载No.<br>型号                   | 记载No.<br>型号                   |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
| ND-s<br>※1 | ND110-         | 65-FS(P)                         | NMR-SAE□A1A-101A(P)              | E-1<br>NCR-XBGGA- | E-3<br>NCR-XBCNA-  | P-1 ※3<br>NCR-XBBBA-          | P-7 ※3<br>NCR-XBBCA-          |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                |                                  | NMR-SAE□A2A-131A(P)              |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                | 85-FS(P)                         | NMR-SAU□A1A-181A(P)              |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                |                                  | NMR-SAU□A2A-221A(P)              |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            | ND140-         | 65-FS(P)                         | NMR-SCE□A2A-301A(P)              |                   |                    |                               |                               | P-2 ※3<br>NCR-XBBEA- | P-8 ※3<br>NCR-XBBFA-          |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                | 70-LS(P)                         | NMR-SRE□A2A-301A(P)              |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                | 95-LS(P)                         | NMR-SRF□A2A-471A(P)              |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            | ND180-         | 55-FS(P)                         | NMR-SDM□A2A-531A(P)              |                   |                    |                               |                               |                      |                               | P-1 ※3<br>NCR-XBBBA- | P-7 ※3<br>NCR-XBBCA- |                      |                      |                   |                       |                      |                      |
|            |                | 70-LS(P)                         | NMR-SSM□A2A-531A(P)              |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                | 95-LS(P)                         | NMR-SSE□A2A-941A(P)              |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            | ND250-         | 55-FS(P)                         | NMR-SEM□A2A-791A(P)              |                   |                    | P-2 ※3<br>NCR-XBBEA-          | P-8 ※3<br>NCR-XBBFA-          |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                | 70-LS(P)                         | NMR-STE□A2A-791A(P)              |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                | 95-LS(P)                         | NMR-STF□A2A-152A(P)              |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            | ND400-         | 65-FS(P)                         | NMR-SFE□A2A-182A(P)              |                   |                    |                               |                               |                      |                               |                      |                      | P-3 ※3<br>NCR-XBBHA- | P-9 ※3<br>NCR-XBBIA- |                   |                       |                      |                      |
|            |                | 70-LS(P)                         | NMR-SUE□A2A-182A(P)              |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                | 95-LS(P)                         | NMR-SUF□A2A-322A(P)              |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                | 160-LS(P)                        | NMR-SUH□A2A-622A(P)              |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      | P-4<br>NCR-XBEMA- | P-10 ※3<br>NCR-XBENA- |                      |                      |
|            |                |                                  |                                  |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
| ND-s HS    | ND110-         | 85-FS(P)-HS                      | NMR-SAUIA2A-551A(P)              | —                 | E-3<br>NCR-XBCNA-  |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       | P-1 ※3<br>NCR-XBBBA- | P-7 ※3<br>NCR-XBBCA- |
|            | ND140-         | 70-LS(P)-HS                      | NMR-SREIA2A-661A(P)              |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       | P-2 ※3<br>NCR-XBBEA- | P-8 ※3<br>NCR-XBBFA- |
|            |                | 95-LS(P)-HS                      | NMR-SRFIA2A-102A(P)              |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            | ND180-         | 95-LS(P)-HS                      | NMR-SSEIA2A-162A(P)              |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
| DD-s<br>※1 | DD160-         | 96-LS(P5/P3)                     | DD16-251L04□NN(-P/-P3)           | E-1<br>NCR-XBGGA- | E-3<br>NCR-XBCNA-  |                               |                               | P-1 ※3<br>NCR-XBBBA- | P-7 ※3<br>NCR-XBBCA-          |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                | 105-FS(P5/P3)                    | DD16-251F04CNN(-P/-P3)           |                   | —                  |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                | 146-LS(P5/P3)                    | DD16-681L04□NN(-P/-P3)           |                   | E-3<br>NCR-XBCNA-  |                               |                               | P-2 ※3<br>NCR-XBBEA- | P-8 ※3<br>NCR-XBBFA-          |                      |                      |                      |                      |                   |                       |                      |                      |
|            | DD250-         | 90-LS(P5/P3)                     | DD25-521L02□NN(-P/-P3)           |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                | 138-LS(P5/P3)                    | DD25-102L02□NN(-P/-P3)           |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                | 163-LS(P5/P3)                    | DD25-152L02□NN(-P/-P3)           |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            | DD400-         | 150-LS(P5/P3)                    | DD40-322L02CNN(-P/-P3)           |                   | —                  | P-4<br>NCR-XBEMA-             | P-10 ※3<br>NCR-XBENA-         |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                | 200-LS(P5/P3)                    | DD40-622L02CNN(-P/-P3)           |                   |                    | P-5<br>NCR-XBBTA-             | P-12<br>NCR-XBBVA-<br>(马达固定用) |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                | 250-LS(P5/P3)<br>(1.5rps规格)      | DD40-702L01CNN(-P/-P3)           |                   |                    |                               |                               | P-6<br>NCR-XBEZA-    | P-13<br>NCR-XBL1A-<br>(马达固定用) |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                |                                  | ※ 组合驱动器型号：<br>NCR-H□2702□-A-□□□□ |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                | ※ 组合驱动器型号：<br>NCR-H□2153□-A-□□□□ | P-4<br>NCR-XBEMA-                |                   |                    | P-10 ※3<br>NCR-XBENA-         |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                | 250-LS(P5/P3)<br>(1rps规格)        |                                  |                   |                    |                               | DD40-472L01CNN(-P/-P3)        |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                | 250-LS(P5/P3)<br>(2rps规格)        | DD40-942L02CNN(-P/-P3)           |                   |                    | —                             | P-13<br>NCR-XBL1A-<br>(马达固定用) |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                | DD630-                           | 175-LS(P10/P5)                   |                   |                    | DD63-842L01HNN(-P/-P5)        | E-2<br>NCR-XBGFB-             | P-5<br>NCR-XBBTA-    | P-11 ※3<br>NCR-XBETA-         |                      |                      |                      |                      |                   |                       |                      |                      |
|            | 225-LS(P10/P5) |                                  | DD63-123L01HNN(-P/-P5)           |                   | —                  | P-13<br>NCR-XBL1A-<br>(马达固定用) |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |
|            | HD-s           | HD140-                           | 160-LS(P)                        |                   | NMR-FRHA2A-102A(P) | —                             | E-3<br>NCR-XBCNA-             | P-1 ※3<br>NCR-XBBBA- | P-7 ※3<br>NCR-XBBCA-          |                      |                      |                      |                      |                   |                       |                      |                      |
|            |                |                                  | 185-LS(P)                        |                   | NMR-FRIA2A-122A(P) |                               |                               | P-2 ※3<br>NCR-XBBEA- | P-8 ※3<br>NCR-XBBFA-          |                      |                      |                      |                      |                   |                       |                      |                      |
| HD180-     |                | 200-LS(P)                        | NMR-FSJA2A-252A(P)               |                   |                    |                               |                               |                      |                               |                      |                      |                      |                      |                   |                       |                      |                      |

※1 ND-s系列及DD-s系列的增量式编码器类型,对应接单生产。

※2 型号内□部分如下所述。  
ND-s系列为绝对式编码器时: J, 增量式编码器时: I。  
DD-s系列为绝对式编码器时: C, 增量式编码器时: A。

※3 马达的移动速度可对应0.5m/s以上的速度。

## 编码器线缆一览表

| 记载No.    | 型号               | 长度<br>(L) | 编码器线缆外形图 | 编码器用连接器套件 ※1 |                                                                                                                                                      | 信号表                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|----------|------------------|-----------|----------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|----------|-----|------|-----|------|-----|-----|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|----|---|--------|----|-----|---|----|----|----|---|-----|----|---|---|--------|----|----|----|-----|----|---|----|-----|----|----|----|-----|----|----|----|--------|----|-----|----|-----|----|----|----|--------|----|-----|----|--|----|--|----|--------|----|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--------|------|--|--|--------|------|
|          |                  |           |          | P1驱动器侧连接器    | J1马达侧连接器                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| E-1      | NCR-XBGGA -030   | 3m        |          | ○ NCR-XBDVA  |                                                                                                                                                      | <table><tr><th colspan="2">P1(驱动器侧)</th><th colspan="2">J1(编码器侧)</th></tr><tr><th>信号名称</th><th>端子号</th><th>信号名称</th><th>端子号</th></tr><tr><td>GND</td><td>1</td><td>+5V</td><td>A1</td></tr><tr><td>GND</td><td>2</td><td>+5V</td><td>A2</td></tr><tr><td>+5V</td><td>3</td><td>SD</td><td>A3</td></tr><tr><td>+5V</td><td>4</td><td></td><td>A4</td></tr><tr><td>SD</td><td>5</td><td></td><td>A5</td></tr><tr><td>SD*</td><td>6</td><td></td><td>A6</td></tr><tr><td></td><td>7</td><td></td><td>A7</td></tr><tr><td></td><td>8</td><td>FG(地线)</td><td>A8</td></tr><tr><td></td><td>9</td><td>GND</td><td>B1</td></tr><tr><td></td><td>10</td><td>GND</td><td>B2</td></tr><tr><td></td><td>11</td><td>SD*</td><td>B3</td></tr><tr><td></td><td>12</td><td></td><td>B4</td></tr><tr><td></td><td>13</td><td></td><td>B5</td></tr><tr><td></td><td>14</td><td></td><td>B6</td></tr><tr><td></td><td>15</td><td></td><td>B7</td></tr><tr><td></td><td>16</td><td>FG(地线)</td><td>B8</td></tr><tr><td></td><td>17</td><td></td><td></td></tr><tr><td></td><td>18</td><td></td><td></td></tr><tr><td></td><td>19</td><td></td><td></td></tr><tr><td></td><td>20</td><td></td><td></td></tr><tr><td></td><td></td><td>FG(地线)</td><td>金属零件</td></tr></table> | P1(驱动器侧) |      | J1(编码器侧) |     | 信号名称 | 端子号 | 信号名称 | 端子号 | GND | 1  | +5V | A1 | GND | 2 | +5V | A2 | +5V | 3  | SD  | A3 | +5V | 4 |     | A4 | SD | 5 |        | A5 | SD* | 6 |    | A6 |    | 7 |     | A7 |   | 8 | FG(地线) | A8 |    | 9  | GND | B1 |   | 10 | GND | B2 |    | 11 | SD* | B3 |    | 12 |        | B4 |     | 13 |     | B5 |    | 14 |        | B6 |     | 15 |  | B7 |  | 16 | FG(地线) | B8 |  | 17 |  |  |  | 18 |  |  |  | 19 |  |  |  | 20 |        |      |  |  | FG(地线) | 金属零件 |
|          | P1(驱动器侧)         |           |          | J1(编码器侧)     |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 信号名称             | 端子号       |          | 信号名称         | 端子号                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | GND              | 1         |          | +5V          | A1                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | GND              | 2         |          | +5V          | A2                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| +5V      | 3                | SD        | A3       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| +5V      | 4                |           | A4       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| SD       | 5                |           | A5       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| SD*      | 6                |           | A6       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 7                |           | A7       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 8                | FG(地线)    | A8       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 9                | GND       | B1       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 10               | GND       | B2       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 11               | SD*       | B3       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 12               |           | B4       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 13               |           | B5       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 14               |           | B6       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 15               |           | B7       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 16               | FG(地线)    | B8       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 17               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 18               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 19               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 20               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          |                  | FG(地线)    | 金属零件     |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | NCR-XBGGA -250-Z | 25m       |          |              |                                                                                                                                                      | <table><tr><th colspan="2">P1(驱动器侧)</th><th colspan="2">J1(编码器侧)</th></tr><tr><th>信号名称</th><th>端子号</th><th>信号名称</th><th>端子号</th></tr><tr><td>GND</td><td>1</td><td>+5V</td><td>A1</td></tr><tr><td>GND</td><td>2</td><td>+5V</td><td>A2</td></tr><tr><td>GND</td><td>3</td><td>SD</td><td>A3</td></tr><tr><td></td><td>4</td><td></td><td>A4</td></tr><tr><td>SD</td><td>5</td><td></td><td>A5</td></tr><tr><td>SD*</td><td>6</td><td></td><td>A6</td></tr><tr><td></td><td>7</td><td></td><td>A7</td></tr><tr><td></td><td>8</td><td>FG(地线)</td><td>A8</td></tr><tr><td></td><td>9</td><td>GND</td><td>B1</td></tr><tr><td></td><td>10</td><td>GND</td><td>B2</td></tr><tr><td></td><td>11</td><td>SD*</td><td>B3</td></tr><tr><td></td><td>12</td><td></td><td>B4</td></tr><tr><td></td><td>13</td><td></td><td>B5</td></tr><tr><td></td><td>14</td><td></td><td>B6</td></tr><tr><td></td><td>15</td><td></td><td>B7</td></tr><tr><td></td><td>16</td><td>FG(地线)</td><td>B8</td></tr><tr><td></td><td>17</td><td></td><td></td></tr><tr><td></td><td>18</td><td></td><td></td></tr><tr><td></td><td>19</td><td></td><td></td></tr><tr><td></td><td>20</td><td></td><td></td></tr><tr><td></td><td></td><td>FG(地线)</td><td>金属零件</td></tr></table>    | P1(驱动器侧) |      | J1(编码器侧) |     | 信号名称 | 端子号 | 信号名称 | 端子号 | GND | 1  | +5V | A1 | GND | 2 | +5V | A2 | GND | 3  | SD  | A3 |     | 4 |     | A4 | SD | 5 |        | A5 | SD* | 6 |    | A6 |    | 7 |     | A7 |   | 8 | FG(地线) | A8 |    | 9  | GND | B1 |   | 10 | GND | B2 |    | 11 | SD* | B3 |    | 12 |        | B4 |     | 13 |     | B5 |    | 14 |        | B6 |     | 15 |  | B7 |  | 16 | FG(地线) | B8 |  | 17 |  |  |  | 18 |  |  |  | 19 |  |  |  | 20 |        |      |  |  | FG(地线) | 金属零件 |
| P1(驱动器侧) |                  | J1(编码器侧)  |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| 信号名称     | 端子号              | 信号名称      |          | 端子号          |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| GND      | 1                | +5V       |          | A1           |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| GND      | 2                | +5V       |          | A2           |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| GND      | 3                | SD        | A3       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 4                |           | A4       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| SD       | 5                |           | A5       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| SD*      | 6                |           | A6       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 7                |           | A7       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 8                | FG(地线)    | A8       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 9                | GND       | B1       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 10               | GND       | B2       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 11               | SD*       | B3       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 12               |           | B4       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 13               |           | B5       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 14               |           | B6       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 15               |           | B7       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 16               | FG(地线)    | B8       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 17               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 18               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 19               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 20               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          |                  | FG(地线)    | 金属零件     |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | -300-Z           | 30m       |          |              | <table><tr><th colspan="2">P2信号表</th></tr><tr><th>信号名称</th><th>线颜色</th></tr><tr><td>+5V</td><td>桃红色</td></tr><tr><td>GND</td><td>黑</td></tr></table> | P2信号表                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | 信号名称 | 线颜色      | +5V | 桃红色  | GND | 黑    |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| P2信号表    |                  |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| 信号名称     | 线颜色              |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| +5V      | 桃红色              |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| GND      | 黑                |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          |                  |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          |                  |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| E-2      | NCR-XBGFB -030   | 3m        |          | ○ NCR-XBDWA  |                                                                                                                                                      | <table><tr><th colspan="2">P1(驱动器侧)</th><th colspan="2">J1(编码器侧)</th></tr><tr><th>信号名称</th><th>端子号</th><th>信号名称</th><th>端子号</th></tr><tr><td>GND</td><td>1</td><td>+5V</td><td>1</td></tr><tr><td>GND</td><td>2</td><td>GND</td><td>2</td></tr><tr><td>+5V</td><td>3</td><td>+5V</td><td>3</td></tr><tr><td>+5V</td><td>4</td><td>GND</td><td>4</td></tr><tr><td>SD</td><td>5</td><td>FG(地线)</td><td>5</td></tr><tr><td>SD*</td><td>6</td><td>SD</td><td>6</td></tr><tr><td></td><td>7</td><td>SD*</td><td>7</td></tr><tr><td></td><td>8</td><td></td><td>8</td></tr><tr><td></td><td>9</td><td></td><td>9</td></tr><tr><td></td><td>10</td><td></td><td>10</td></tr><tr><td></td><td>11</td><td></td><td>11</td></tr><tr><td></td><td>12</td><td>FG(地线)</td><td>12</td></tr><tr><td></td><td>13</td><td></td><td>13</td></tr><tr><td></td><td>14</td><td></td><td>14</td></tr><tr><td></td><td>15</td><td></td><td>15</td></tr><tr><td></td><td>16</td><td></td><td></td></tr><tr><td></td><td>17</td><td></td><td></td></tr><tr><td></td><td>18</td><td></td><td></td></tr><tr><td></td><td>19</td><td></td><td></td></tr><tr><td></td><td>20</td><td></td><td></td></tr><tr><td></td><td></td><td>FG(地线)</td><td>金属零件</td></tr></table>            | P1(驱动器侧) |      | J1(编码器侧) |     | 信号名称 | 端子号 | 信号名称 | 端子号 | GND | 1  | +5V | 1  | GND | 2 | GND | 2  | +5V | 3  | +5V | 3  | +5V | 4 | GND | 4  | SD | 5 | FG(地线) | 5  | SD* | 6 | SD | 6  |    | 7 | SD* | 7  |   | 8 |        | 8  |    | 9  |     | 9  |   | 10 |     | 10 |    | 11 |     | 11 |    | 12 | FG(地线) | 12 |     | 13 |     | 13 |    | 14 |        | 14 |     | 15 |  | 15 |  | 16 |        |    |  | 17 |  |  |  | 18 |  |  |  | 19 |  |  |  | 20 |        |      |  |  | FG(地线) | 金属零件 |
|          | P1(驱动器侧)         |           |          | J1(编码器侧)     |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 信号名称             | 端子号       |          | 信号名称         | 端子号                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | GND              | 1         |          | +5V          | 1                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | GND              | 2         |          | GND          | 2                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| +5V      | 3                | +5V       | 3        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| +5V      | 4                | GND       | 4        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| SD       | 5                | FG(地线)    | 5        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| SD*      | 6                | SD        | 6        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 7                | SD*       | 7        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 8                |           | 8        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 9                |           | 9        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 10               |           | 10       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 11               |           | 11       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 12               | FG(地线)    | 12       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 13               |           | 13       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 14               |           | 14       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 15               |           | 15       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 16               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 17               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 18               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 19               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 20               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          |                  | FG(地线)    | 金属零件     |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | NCR-XBGFB -250-Z | 25m       |          |              |                                                                                                                                                      | <table><tr><th colspan="2">P1(驱动器侧)</th><th colspan="2">J1(编码器侧)</th></tr><tr><th>信号名称</th><th>端子号</th><th>信号名称</th><th>端子号</th></tr><tr><td>GND</td><td>1</td><td>+5V</td><td>1</td></tr><tr><td>GND</td><td>2</td><td>GND</td><td>2</td></tr><tr><td>+5V</td><td>3</td><td>+5V</td><td>3</td></tr><tr><td>+5V</td><td>4</td><td>GND</td><td>4</td></tr><tr><td>SD</td><td>5</td><td>FG(地线)</td><td>5</td></tr><tr><td>SD*</td><td>6</td><td>SD</td><td>6</td></tr><tr><td></td><td>7</td><td>SD*</td><td>7</td></tr><tr><td></td><td>8</td><td></td><td>8</td></tr><tr><td></td><td>9</td><td></td><td>9</td></tr><tr><td></td><td>10</td><td></td><td>10</td></tr><tr><td></td><td>11</td><td></td><td>11</td></tr><tr><td></td><td>12</td><td>FG(地线)</td><td>12</td></tr><tr><td></td><td>13</td><td></td><td>13</td></tr><tr><td></td><td>14</td><td></td><td>14</td></tr><tr><td></td><td>15</td><td></td><td>15</td></tr><tr><td></td><td>16</td><td></td><td></td></tr><tr><td></td><td>17</td><td></td><td></td></tr><tr><td></td><td>18</td><td></td><td></td></tr><tr><td></td><td>19</td><td></td><td></td></tr><tr><td></td><td>20</td><td></td><td></td></tr><tr><td></td><td></td><td>FG(地线)</td><td>金属零件</td></tr></table>            | P1(驱动器侧) |      | J1(编码器侧) |     | 信号名称 | 端子号 | 信号名称 | 端子号 | GND | 1  | +5V | 1  | GND | 2 | GND | 2  | +5V | 3  | +5V | 3  | +5V | 4 | GND | 4  | SD | 5 | FG(地线) | 5  | SD* | 6 | SD | 6  |    | 7 | SD* | 7  |   | 8 |        | 8  |    | 9  |     | 9  |   | 10 |     | 10 |    | 11 |     | 11 |    | 12 | FG(地线) | 12 |     | 13 |     | 13 |    | 14 |        | 14 |     | 15 |  | 15 |  | 16 |        |    |  | 17 |  |  |  | 18 |  |  |  | 19 |  |  |  | 20 |        |      |  |  | FG(地线) | 金属零件 |
| P1(驱动器侧) |                  | J1(编码器侧)  |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| 信号名称     | 端子号              | 信号名称      |          | 端子号          |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| GND      | 1                | +5V       |          | 1            |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| GND      | 2                | GND       |          | 2            |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| +5V      | 3                | +5V       | 3        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| +5V      | 4                | GND       | 4        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| SD       | 5                | FG(地线)    | 5        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| SD*      | 6                | SD        | 6        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 7                | SD*       | 7        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 8                |           | 8        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 9                |           | 9        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 10               |           | 10       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 11               |           | 11       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 12               | FG(地线)    | 12       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 13               |           | 13       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 14               |           | 14       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 15               |           | 15       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 16               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 17               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 18               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 19               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 20               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          |                  | FG(地线)    | 金属零件     |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | -300-Z           | 30m       |          |              | <table><tr><th colspan="2">P2信号表</th></tr><tr><th>信号名称</th><th>线颜色</th></tr><tr><td>+5V</td><td>桃红色</td></tr><tr><td>GND</td><td>黑</td></tr></table> | P2信号表                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | 信号名称 | 线颜色      | +5V | 桃红色  | GND | 黑    |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| P2信号表    |                  |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| 信号名称     | 线颜色              |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| +5V      | 桃红色              |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| GND      | 黑                |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          |                  |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          |                  |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| E-3      | NCR-XBCNA -030   | 3m        |          | ○ NCR-XBC8A  |                                                                                                                                                      | <table><tr><th colspan="2">P1(驱动器侧)</th><th colspan="2">J1(编码器侧)</th></tr><tr><th>信号名称</th><th>端子号</th><th>信号名称</th><th>端子号</th></tr><tr><td>GND</td><td>2※</td><td>A*</td><td>2</td></tr><tr><td>+5V</td><td>3</td><td>B</td><td>3</td></tr><tr><td>+5V</td><td>4※</td><td>B*</td><td>4</td></tr><tr><td></td><td>5</td><td>Z</td><td>5</td></tr><tr><td></td><td>6</td><td>Z*</td><td>6</td></tr><tr><td>A</td><td>7</td><td>PS</td><td>7</td></tr><tr><td>A*</td><td>8</td><td>PS*</td><td>8</td></tr><tr><td>B</td><td>9</td><td>PC</td><td>9</td></tr><tr><td>B*</td><td>10</td><td>PC*</td><td>10</td></tr><tr><td>Z</td><td>11</td><td>+5V</td><td>11</td></tr><tr><td>Z*</td><td>12</td><td>GND</td><td>12</td></tr><tr><td>PS</td><td>13</td><td>+5V</td><td>13</td></tr><tr><td>PS*</td><td>14</td><td>GND</td><td>14</td></tr><tr><td>PC</td><td>15</td><td>FG(地线)</td><td>15</td></tr><tr><td>PC*</td><td>16</td><td></td><td></td></tr><tr><td></td><td>17</td><td></td><td></td></tr><tr><td></td><td>18</td><td></td><td></td></tr><tr><td></td><td>19</td><td></td><td></td></tr><tr><td></td><td>20</td><td></td><td></td></tr><tr><td></td><td></td><td>FG(地线)</td><td>金属零件</td></tr></table>                                       | P1(驱动器侧) |      | J1(编码器侧) |     | 信号名称 | 端子号 | 信号名称 | 端子号 | GND | 2※ | A*  | 2  | +5V | 3 | B   | 3  | +5V | 4※ | B*  | 4  |     | 5 | Z   | 5  |    | 6 | Z*     | 6  | A   | 7 | PS | 7  | A* | 8 | PS* | 8  | B | 9 | PC     | 9  | B* | 10 | PC* | 10 | Z | 11 | +5V | 11 | Z* | 12 | GND | 12 | PS | 13 | +5V    | 13 | PS* | 14 | GND | 14 | PC | 15 | FG(地线) | 15 | PC* | 16 |  |    |  | 17 |        |    |  | 18 |  |  |  | 19 |  |  |  | 20 |  |  |  |    | FG(地线) | 金属零件 |  |  |        |      |
|          | P1(驱动器侧)         |           |          | J1(编码器侧)     |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 信号名称             | 端子号       |          | 信号名称         | 端子号                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | GND              | 2※        |          | A*           | 2                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | +5V              | 3         |          | B            | 3                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| +5V      | 4※               | B*        | 4        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 5                | Z         | 5        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 6                | Z*        | 6        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| A        | 7                | PS        | 7        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| A*       | 8                | PS*       | 8        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| B        | 9                | PC        | 9        |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| B*       | 10               | PC*       | 10       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| Z        | 11               | +5V       | 11       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| Z*       | 12               | GND       | 12       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| PS       | 13               | +5V       | 13       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| PS*      | 14               | GND       | 14       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| PC       | 15               | FG(地线)    | 15       |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
| PC*      | 16               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 17               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 18               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 19               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | 20               |           |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          |                  | FG(地线)    | 金属零件     |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | -050             | 5m        |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | -070             | 7m        |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | -100             | 10m       |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | -150             | 15m       |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |
|          | -200             | 20m       |          |              |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |     |      |     |      |     |     |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |    |   |        |    |     |   |    |    |    |   |     |    |   |   |        |    |    |    |     |    |   |    |     |    |    |    |     |    |    |    |        |    |     |    |     |    |    |    |        |    |     |    |  |    |  |    |        |    |  |    |  |  |  |    |  |  |  |    |  |  |  |    |        |      |  |  |        |      |

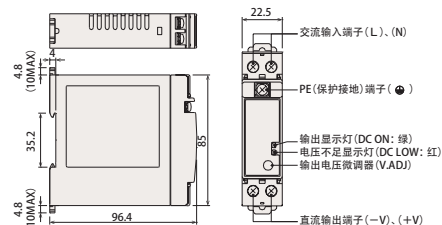
※ 属于标准外,但也可以1m为单位提供编码器线缆。

※1 客户对连接器套件自行制作线缆时,配线时需考虑因线缆长度而导致的电压下降因素。请向营业担当人员咨询。

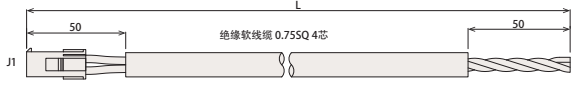
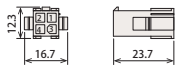
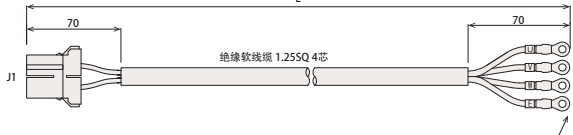
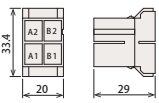
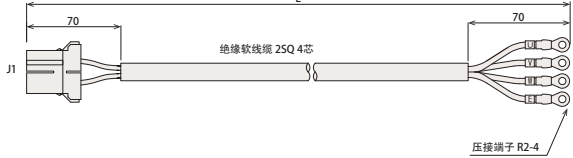
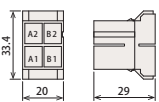
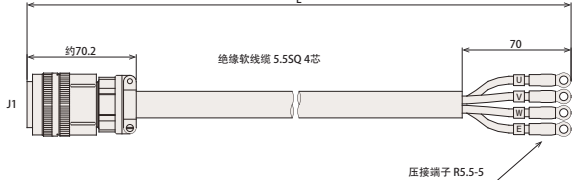
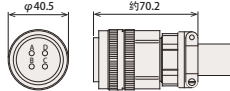
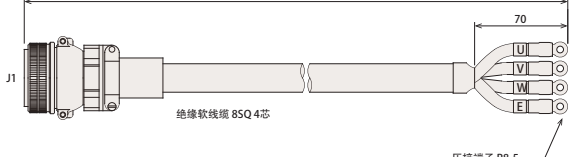
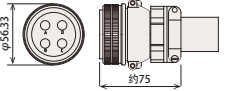
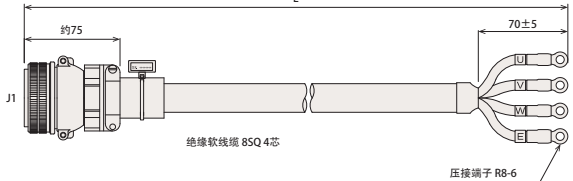
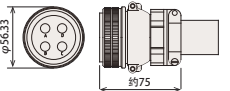
## 外部电源单元

系用于E-1 NCR-XBGGA-250/300-Z、E-2 NCR-XBGFB-250/300-Z的配件。

| 产品型号      |
|-----------|
| NCR-XAD1A |

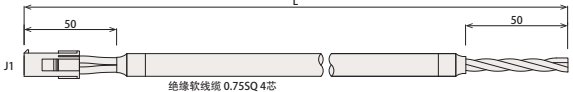
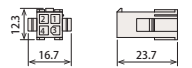
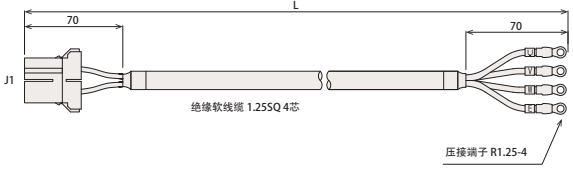
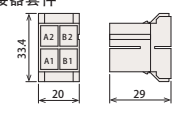
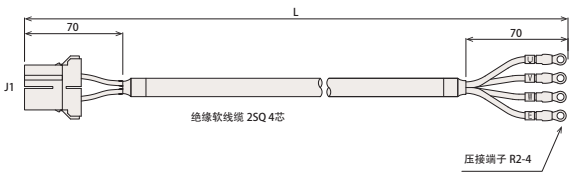
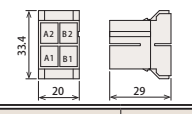
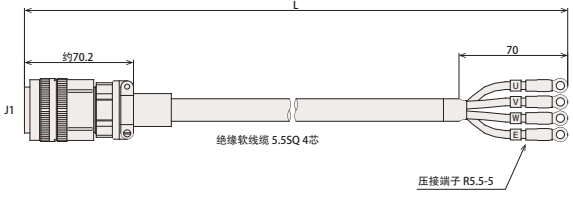
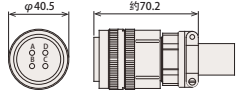
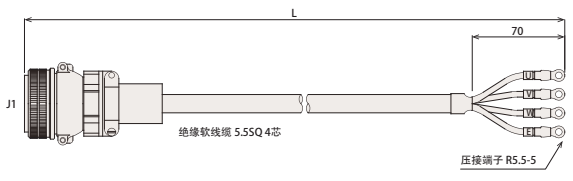
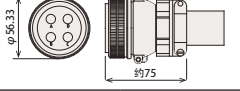


■ 电力线缆 无屏蔽类型一览表

| 记载No. | 型号             | 长度<br>(L) | 电力线缆外形图                                                                              | 信号表                                                                                                               |        |      |
|-------|----------------|-----------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------|------|
| P-1   | NCR-XBBBA -030 | 3m        |    | 信号名称                                                                                                              | J1销针号码 | 线缆颜色 |
|       | -050           | 5m        |                                                                                      | U                                                                                                                 | 1      | 红    |
|       | -070           | 7m        |                                                                                      | V                                                                                                                 | 2      | 白    |
|       | -100           | 10m       |                                                                                      | W                                                                                                                 | 3      | 黑    |
|       | -150           | 15m       |                                                                                      | E                                                                                                                 | 4      | 绿    |
|       | -200           | 20m       |                                                                                      | 电力线缆用连接器套件<br>CSZ-MOT<br>      |        |      |
|       | -250           | 25m       |                                                                                      |                                                                                                                   |        |      |
|       | -300           | 30m       |                                                                                      |                                                                                                                   |        |      |
|       |                |           |                                                                                      |                                                                                                                   |        |      |
| P-2   | NCR-XBBEA -030 | 3m        |    | 信号名称                                                                                                              | J1销针号码 | 线缆颜色 |
|       | -050           | 5m        |                                                                                      | U                                                                                                                 | B1     | 红    |
|       | -070           | 7m        |                                                                                      | V                                                                                                                 | B2     | 白    |
|       | -100           | 10m       |                                                                                      | W                                                                                                                 | A1     | 黑    |
|       | -150           | 15m       |                                                                                      | E                                                                                                                 | A2     | 绿    |
|       | -200           | 20m       |                                                                                      | 电力线缆用连接器套件<br>NCR-XBB4A<br>    |        |      |
|       | -250           | 25m       |                                                                                      |                                                                                                                   |        |      |
|       | -300           | 30m       |                                                                                      |                                                                                                                   |        |      |
|       |                |           |                                                                                      |                                                                                                                   |        |      |
| P-3   | NCR-XBBHA -030 | 3m        |   | 信号名称                                                                                                              | J1销针号码 | 线缆颜色 |
|       | -050           | 5m        |                                                                                      | U                                                                                                                 | B1     | 红    |
|       | -070           | 7m        |                                                                                      | V                                                                                                                 | B2     | 白    |
|       | -100           | 10m       |                                                                                      | W                                                                                                                 | A1     | 黑    |
|       | -150           | 15m       |                                                                                      | E                                                                                                                 | A2     | 绿    |
|       | -200           | 20m       |                                                                                      | 电力线缆用连接器套件<br>NCR-XBB4A<br>  |        |      |
|       | -250           | 25m       |                                                                                      |                                                                                                                   |        |      |
|       | -300           | 30m       |                                                                                      |                                                                                                                   |        |      |
|       |                |           |                                                                                      |                                                                                                                   |        |      |
| P-4   | NCR-XBEMA -030 | 3m        |  | 信号名称                                                                                                              | J1销针号码 | 线缆颜色 |
|       | -050           | 5m        |                                                                                      | U                                                                                                                 | A      | 红    |
|       | -070           | 7m        |                                                                                      | V                                                                                                                 | B      | 白    |
|       | -100           | 10m       |                                                                                      | W                                                                                                                 | C      | 黑    |
|       | -150           | 15m       |                                                                                      | E                                                                                                                 | D      | 绿    |
|       | -200           | 20m       |                                                                                      | 电力线缆用连接器套件<br>CSZ5-MOT-B<br> |        |      |
|       | -250           | 25m       |                                                                                      |                                                                                                                   |        |      |
|       | -300           | 30m       |                                                                                      |                                                                                                                   |        |      |
|       |                |           |                                                                                      |                                                                                                                   |        |      |
| P-5   | NCR-XBBTA -030 | 3m        |  | 信号名称                                                                                                              | J1销针号码 | 线缆颜色 |
|       | -050           | 5m        |                                                                                      | U                                                                                                                 | A      | 红    |
|       | -070           | 7m        |                                                                                      | V                                                                                                                 | B      | 白    |
|       | -100           | 10m       |                                                                                      | W                                                                                                                 | C      | 黑    |
|       | -150           | 15m       |                                                                                      | E                                                                                                                 | D      | 绿    |
|       | -200           | 20m       |                                                                                      | 电力线缆用连接器套件<br>NCR-XBD9A<br>  |        |      |
|       | -250           | 25m       |                                                                                      |                                                                                                                   |        |      |
|       | -300           | 30m       |                                                                                      |                                                                                                                   |        |      |
|       |                |           |                                                                                      |                                                                                                                   |        |      |
| P-6   | NCR-XBEZA -030 | 3m        |  | 信号名称                                                                                                              | J1销针号码 | 线缆颜色 |
|       | -050           | 5m        |                                                                                      | U                                                                                                                 | A      | 红    |
|       | -070           | 7m        |                                                                                      | V                                                                                                                 | B      | 白    |
|       | -100           | 10m       |                                                                                      | W                                                                                                                 | C      | 黑    |
|       | -150           | 15m       |                                                                                      | E                                                                                                                 | D      | 绿    |
|       | -200           | 20m       |                                                                                      | 电力线缆用连接器套件<br>NCR-XBD9A<br>  |        |      |
|       | -250           | 25m       |                                                                                      |                                                                                                                   |        |      |
|       | -300           | 30m       |                                                                                      |                                                                                                                   |        |      |
|       |                |           |                                                                                      |                                                                                                                   |        |      |

※ 属于标准外,但也可以1m为单位提供电力线缆。

■ 电力线缆 带屏蔽类型(马达移动用)一览表

| 记载No. | 型号             | 长度 (L) | 电力线缆外形图                                                                              | 信号表                                                                                                            |        |      |
|-------|----------------|--------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------|------|
| P-7   | NCR-XBBCA -030 | 3m     |    | 信号名称                                                                                                           | J1销针号码 | 线缆颜色 |
|       | -050           | 5m     |                                                                                      | U                                                                                                              | 1      | 红    |
|       | -070           | 7m     |                                                                                      | V                                                                                                              | 2      | 白    |
|       | -100           | 10m    |                                                                                      | W                                                                                                              | 3      | 黑    |
|       | -150           | 15m    |                                                                                      | E                                                                                                              | 4      | 绿/黄  |
|       | -200           | 20m    |                                                                                      | 电力线缆用连接器套件<br>CSZ-MOT       |        |      |
|       | -250           | 25m    |                                                                                      |                                                                                                                |        |      |
|       | -300           | 30m    |                                                                                      |                                                                                                                |        |      |
| P-8   | NCR-XBBFA -030 | 3m     |    | 信号名称                                                                                                           | J1销针号码 | 线缆颜色 |
|       | -050           | 5m     |                                                                                      | U                                                                                                              | B1     | 红    |
|       | -070           | 7m     |                                                                                      | V                                                                                                              | B2     | 白    |
|       | -100           | 10m    |                                                                                      | W                                                                                                              | A1     | 黑    |
|       | -150           | 15m    |                                                                                      | E                                                                                                              | A2     | 绿/黄  |
|       | -200           | 20m    |                                                                                      | 电力线缆用连接器套件<br>NCR-XBB4A     |        |      |
|       | -250           | 25m    |                                                                                      |                                                                                                                |        |      |
|       | -300           | 30m    |                                                                                      |                                                                                                                |        |      |
| P-9   | NCR-XBBIA -030 | 3m     |   | 信号名称                                                                                                           | J1销针号码 | 线缆颜色 |
|       | -050           | 5m     |                                                                                      | U                                                                                                              | B1     | 红    |
|       | -070           | 7m     |                                                                                      | V                                                                                                              | B2     | 白    |
|       | -100           | 10m    |                                                                                      | W                                                                                                              | A1     | 黑    |
|       | -150           | 15m    |                                                                                      | E                                                                                                              | A2     | 绿/黄  |
|       | -200           | 20m    |                                                                                      | 电力线缆用连接器套件<br>NCR-XBB4A   |        |      |
|       | -250           | 25m    |                                                                                      |                                                                                                                |        |      |
|       | -300           | 30m    |                                                                                      |                                                                                                                |        |      |
| P-10  | NCR-XBENA -030 | 3m     |  | 信号名称                                                                                                           | J1销针号码 | 线缆颜色 |
|       | -050           | 5m     |                                                                                      | U                                                                                                              | A      | 红    |
|       | -070           | 7m     |                                                                                      | V                                                                                                              | B      | 白    |
|       | -100           | 10m    |                                                                                      | W                                                                                                              | C      | 黑    |
|       | -150           | 15m    |                                                                                      | E                                                                                                              | D      | 绿/黄  |
|       | -200           | 20m    |                                                                                      | 电力线缆用连接器套件<br>CSZ5-MOT-B  |        |      |
|       | -250           | 25m    |                                                                                      |                                                                                                                |        |      |
|       | -300           | 30m    |                                                                                      |                                                                                                                |        |      |
| P-11  | NCR-XBETA -030 | 3m     |  | 信号名称                                                                                                           | J1销针号码 | 线缆颜色 |
|       | -050           | 5m     |                                                                                      | U                                                                                                              | A      | 红    |
|       | -070           | 7m     |                                                                                      | V                                                                                                              | B      | 白    |
|       | -100           | 10m    |                                                                                      | W                                                                                                              | C      | 黑    |
|       | -150           | 15m    |                                                                                      | E                                                                                                              | D      | 绿/黄  |
|       | -200           | 20m    |                                                                                      | 电力线缆用连接器套件<br>NCR-XBD9A   |        |      |
|       | -250           | 25m    |                                                                                      |                                                                                                                |        |      |
|       | -300           | 30m    |                                                                                      |                                                                                                                |        |      |

※ 属于标准外,但也可以1m为单位提供电力线缆。

选配产品

※ 属于标准外,但也可以1m为单位提供电力线缆。

## I/O相关选配

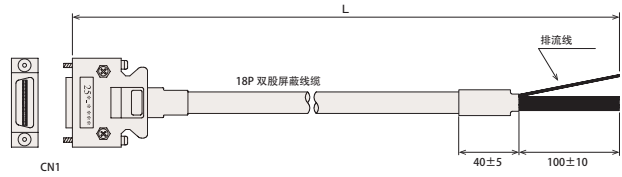
适用伺服  
驱动器

•VPH系列：VPH-HA类型(I/O规格)

### ○I/O线缆 VCIC系列

系与VPH-HA类型的控制输入输出用连接器(CN1)相连, 用来进行各信号的输入输出的线缆。

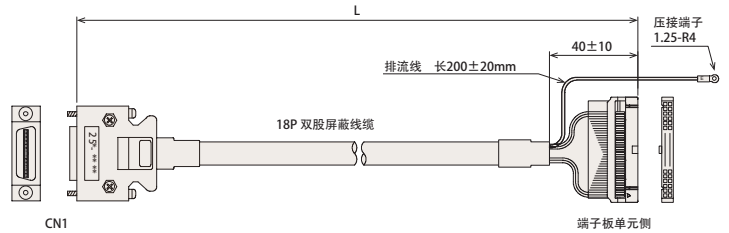
| 产品型号          | 线缆L长度(mm) |
|---------------|-----------|
| NCR-XBA1A-010 | 1000±30   |
| NCR-XBA1A-020 | 2000±30   |
| NCR-XBA1A-030 | 3000±30   |



### ○I/O端子板线缆 VCTC系列

系用来连接VPH-HA类型的控制输入输出用连接器(CN1) 和I/O端子板单元(40极)的线缆。

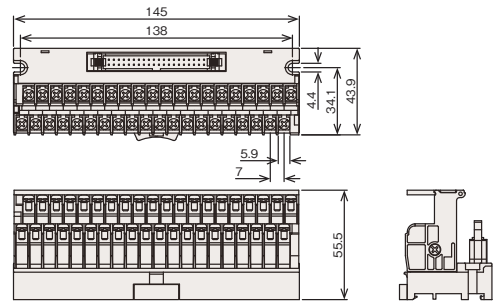
| 产品型号          | 线缆L长度(mm) |
|---------------|-----------|
| NCR-XBA2A-010 | 1000±30   |
| NCR-XBA2A-020 | 2000±30   |
| NCR-XBA2A-030 | 3000±30   |



### ○I/O端子板单元(螺旋式)

系将输入连接器转换为端子板的单元。连线方法为螺旋式。  
与伺服驱动器连接时,需要I/O端子板线缆(VCTC系列)。

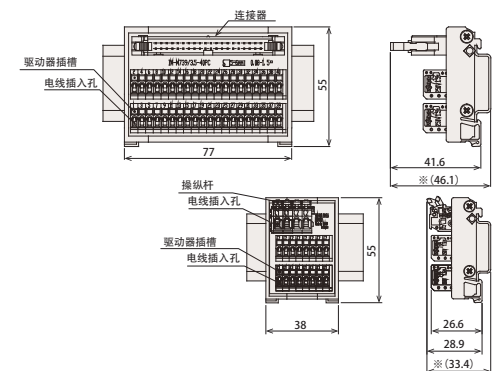
| 产品型号    | 端子数 |
|---------|-----|
| ZTB-401 | 40极 |



### ○I/O端子板单元(笼式弹簧夹持式)

系将输入连接器转换为端子板的单元。连线方法采用笼式弹簧夹持式。  
与伺服驱动器连接时,需要I/O端子板线缆(VCTC系列)。

| 产品型号        | 端子数 |
|-------------|-----|
| NCR-XABND3A | 40极 |



### ■笼式弹簧夹持式共用端子板

请在1个端子上插入2根以上的线缆时使用。

| 产品型号        | 端子数 |
|-------------|-----|
| NCR-XABQD3A | 8×2 |

### ■使用工具 操作螺丝刀

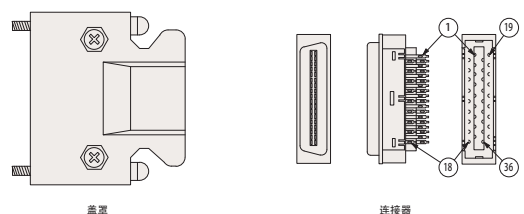
| 产品型号        |
|-------------|
| NCR-XABRD0A |

※系安装DIN35mm导轨时的尺寸值。

### ○I/O信号用连接器套件

系用来与VPH-HA类型的控制输入输出用连接器(CN1)相连的连接器套件。

| 产品型号    |
|---------|
| CSZ-INF |



选配产品

I/O相关选配

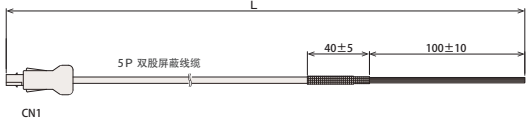
适用伺服驱动器

•VPH系列：VPH-HB/HD/HE类型 (SSCNETⅢ/H、EtherCAT、MECHATROLINK-Ⅲ仕様)

I/O线缆

系与VPH-HB/HD/HE类型的控制输入输出连接器(CN1)相连, 用来进行各信号的输入输出的线缆。

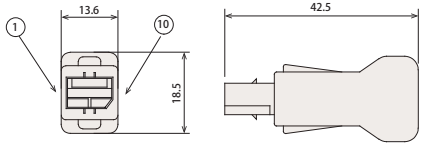
| 产品型号          | 线缆L长度(mm) |
|---------------|-----------|
| NCR-XBANA-010 | 1000±30   |
| NCR-XBANA-020 | 2000±30   |
| NCR-XBANA-030 | 3000±30   |



I/O连接器套件

系用来与VPH-HB/HD/HE类型的控制输入输出连接器(CN1)相连的 I/O线缆用连接器套件。

| 产品型号      |
|-----------|
| NCR-XBDYA |



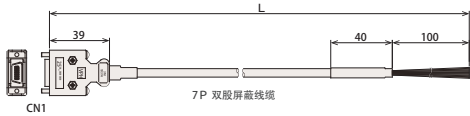
适用伺服驱动器

•VPH系列：VPH-HC类型 (CC-Link规格)

I/O线缆

系与VPH-HC类型的控制输入输出连接器(CN1)相连, 用来进行各信号的输入输出的线缆。

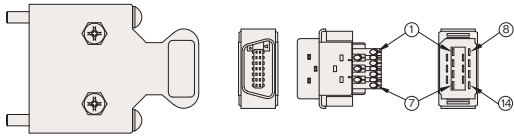
| 产品型号          | 线缆L长度(mm) |
|---------------|-----------|
| NCR-XBARA-010 | 1000±30   |
| NCR-XBARA-020 | 2000±30   |
| NCR-XBARA-030 | 3000±30   |



I/O连接器套件

系与VPH-HC类型的控制输入输出连接器(CN1)相连, 用来进行各信号的输入输出的线缆用连接器套件。

| 产品型号    |
|---------|
| ZCK-COM |



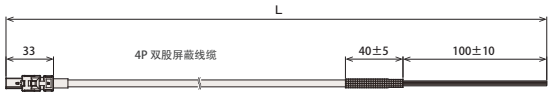
适用伺服驱动器

•VPH系列：全部类型

STO对应线缆

系与VPH系列主体相连,用来进行STO对应信号的输入输出的线缆。

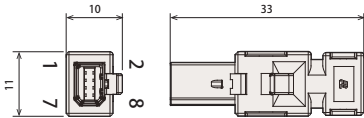
| 产品型号          | 线缆L长度(mm) |
|---------------|-----------|
| NCR-XBASA-010 | 1000±30   |
| NCR-XBASA-020 | 2000±30   |
| NCR-XBASA-030 | 3000±30   |



STO对应连接器套件

系用来与VPH系列主体相连的STO对应线缆用连接器套件。

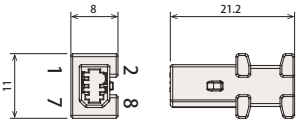
| 产品型号      |
|-----------|
| NCR-XBJ5A |



STO对应短路插头

系用来解除对VPH系列上所连接的马达切断电力的插头。  
本插头属于有STO选配时的附属品。(出货时已插入VPH系列主体的安全输入连接器(CNS)。)

| 产品型号      |
|-----------|
| NCR-XBJ6A |



## ■ 串行通信相关选配

适用伺服  
驱动器

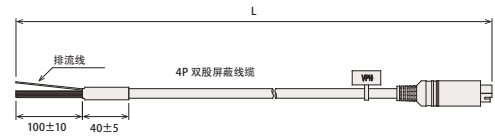
•VPH系列：VPH-HA类型(I/O规格)

### ○ RS-422用通信线缆

系通过PLC计算机链接模块等(RS-422 I/F),用来向伺服驱动器进行各数据的输入输出的线缆。

※ 准备了可连接1台电脑和2~4台装置的通信线缆。

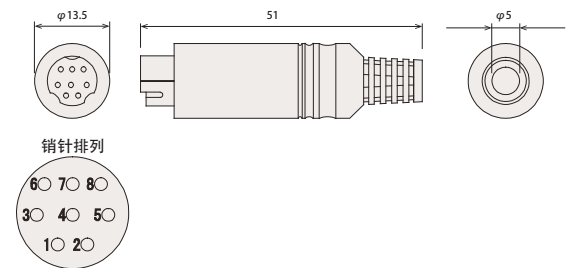
| 产品型号          | 线缆L长度(mm) |
|---------------|-----------|
| NCR-XBFJA-010 | 1000±30   |
| NCR-XBFJA-030 | 3000±50   |
| NCR-XBFJA-050 | 5000±100  |
| NCR-XBFJA-100 | 10000±100 |



### ○ 串行通信用连接器套件

系用来连接到伺服驱动器的RS-422串行通信用连接器上的连接器套件。

| 产品型号      |
|-----------|
| NCR-XBDPA |



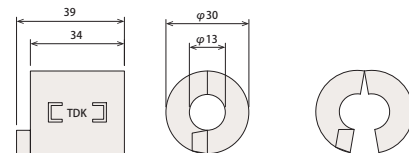
适用伺服  
驱动器

•VPH系列：全部类型

### ○ 干扰对策用铁氧体磁心

为了防止因干扰引起的错误工作(监控器显示的断续、编辑软件的强制结束等)而使用。

| 产品型号      |
|-----------|
| NCR-XAA9A |



■ 干扰对策

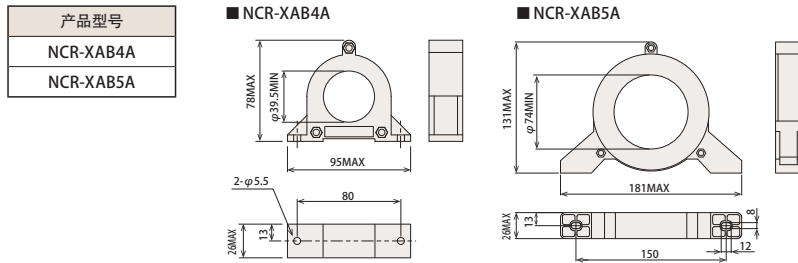
适用伺服  
驱动器

•VPH系列：全部类型

○ 零相电抗器(共用模式用)

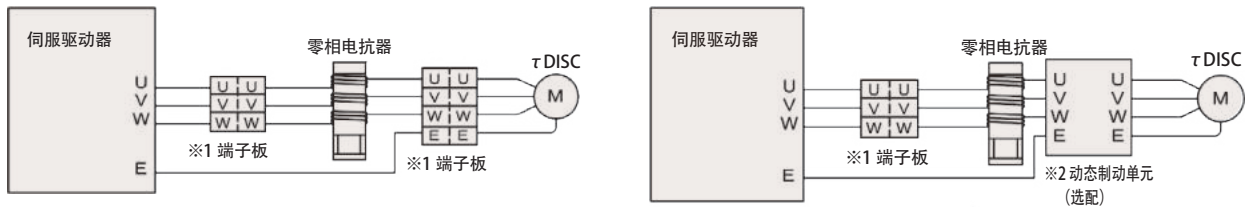
用来吸收伺服驱动器主体产生的干扰,减轻对装置主体及周边机器的干扰影响。

※ 对配线的引接和地线连接方法有较大的影响。

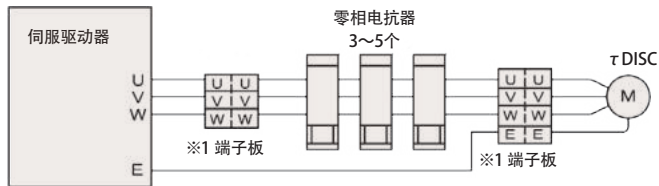


■ 安装例

● 缠绕



● 贯穿(无法缠绕电线时)



※1 端子板请客户自备。伺服驱动器与零相电抗器之间的端子板请根据需要自备。

※2 有动态制动单元时,请在伺服驱动器、动态制动单元之间尽量靠近伺服驱动器进行设置。

■ 关于要使用的零相电抗器和个数

● 电线尺寸AWG(mm<sup>2</sup>)与零相电抗器的关系

| 零相电抗器     | 内径     | 电线尺寸AWG(mm <sup>2</sup> ) |           |            |           |
|-----------|--------|---------------------------|-----------|------------|-----------|
|           |        | 18~10(0.75~5.5)           | 8~6(8~14) | 4~2(22~30) | 1/0~(50~) |
| NCR-XAB4A | 39.5mm | 1个 缠绕3~5圈                 |           | 3~5个贯穿     |           |
| NCR-XAB5A | 74.0mm |                           | 1个 缠绕3~5圈 |            | 3~5个贯穿    |

本表是根据MLFC电线(600V、110℃)的尺寸AWG(mm<sup>2</sup>)和零相电抗器内径计算出的。

直径及硬度因要使用的电线而不同,本表作为标准示出。电线的缠绕方法是缠绕3~5圈。

※ 运行中零相电抗器会发热,所以缠绕在零相电抗器上的电线,请使用使用温度在110℃以上的电线。

※ 在得不到干扰抑制效果时、或零相电抗器的发热显著时,请增加使用个数。

※ 使用时的详情请参照VPH选配篇使用说明书。

■ 干扰对策

适用伺服  
驱动器

•VPH系列：全部类型 输出容量800W以下

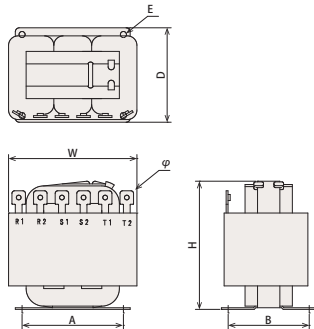
○ AC电抗器

使得输入电流的波形处于接近正弦波的状态,抑制高次谐波。即使在电源容量为500KVA以上的情况下也要进行设置,以便保护主电路。

| 伺服驱动器                               | 组合AC电抗器           |
|-------------------------------------|-------------------|
| 型号                                  | 型号                |
| NCR-H□1101A-A-□□□                   | NCR-XABT2A-801    |
| NCR-H□2101A/2201A/2401A/2801A-A-□□□ |                   |
| NCR-H□2801A-A-□□□                   | NCR-XABT2A-152 ※1 |

※1 系在单相AC电源下超过适用马达负载容量500W使用时的AC电抗器。

NCR-XABT2A-801/152



(单位：mm)

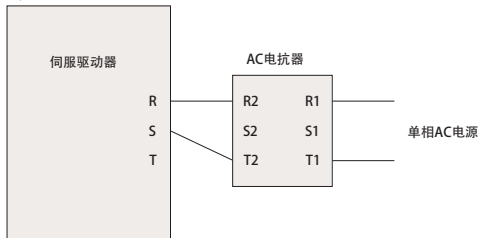
| 产品型号           | W    | D  | H    | A  | B  | E(适合螺丝) | φ     |
|----------------|------|----|------|----|----|---------|-------|
| NCR-XABT2A-801 | (85) | 60 | (75) | 70 | 49 | 4.5(M4) | M4分接头 |
| NCR-XABT2A-152 | (95) | 70 | (95) | 75 | 60 | 4.5(M4) | M4分接头 |

■ 关于AC电抗器的设置及规格

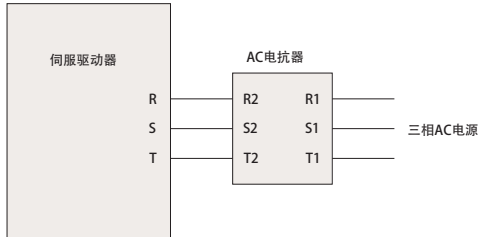
AC电抗器的设置、配线及规格时的详情,请参照VPH选配篇使用说明书。

● AC电抗器配线图

•单相AC电源时



•三相AC电源时



## ■ 干扰对策

适用伺服  
驱动器

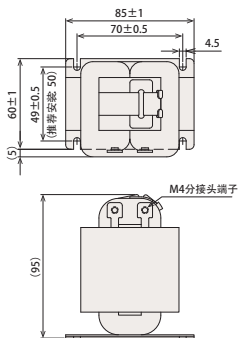
• VPH系列：全部类型 输出容量1.5kW以上

### ◎ DC电抗器

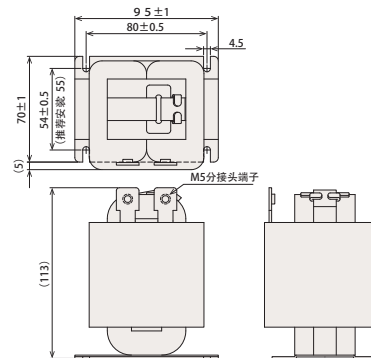
使得输入电流的波形处于接近正弦波的状态,抑制高次谐波。即使在电源容量为500KVA以上的情况下也要进行设置,以便保护主电路。

| 伺服驱动器                   | 组合DC电抗器        |              |
|-------------------------|----------------|--------------|
| 型号                      | 型号             | 使用电线径AWG(SQ) |
| NCR-H□2152A/2222A-A-□□□ | NCR-XABU2A-222 | 14(2)        |
| NCR-H□2332A-A-□□□       | NCR-XABU2A-332 | 12(3.5)      |
| NCR-H□2702A-A-□□□       | NCR-XABU2A-752 | 8(8)         |
| NCR-H□2153A-A-□□□       | NCR-XABU2A-153 | 4(22)        |

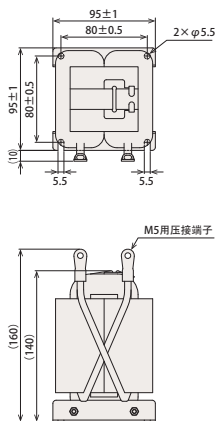
NCR-XABU2A-222



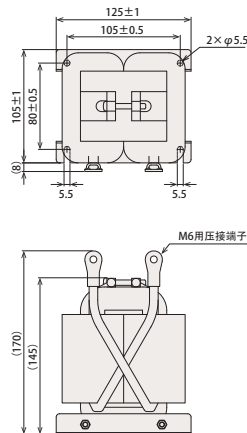
NCR-XABU2A-332



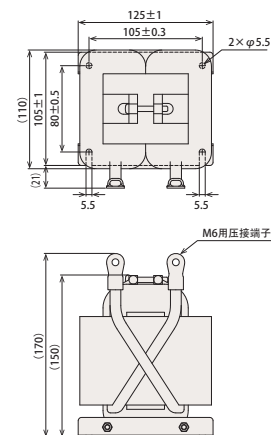
NCR-XABU2A-752



NCR-XABU2A-113



NCR-XABU2A-153



### ■ 关于DC电抗器的设置、配线及规格

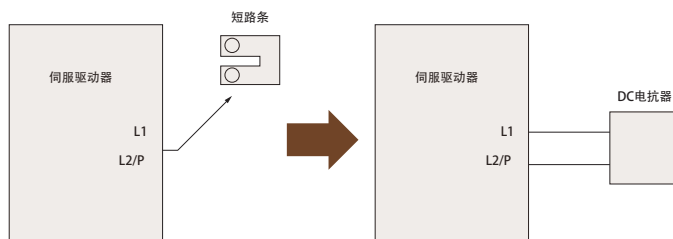
DC电抗器的配线如下图所示。

拆除使得L1、L2/P短路的短路条,连接DC电抗器。

DC电抗器的设置、配线及规格时的详情,请参照VPH选配篇使用说明书。

DC电抗器没有极性。

#### ● DC电抗器配线图



## ■ 动态制动单元

适用伺服  
驱动器

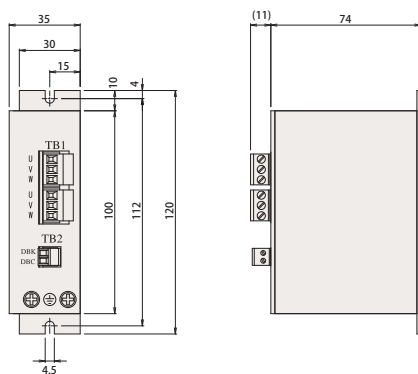
• VPH系列：全部类型

系作为辅助制动单元,使得马达减速的辅助制动单元装置。

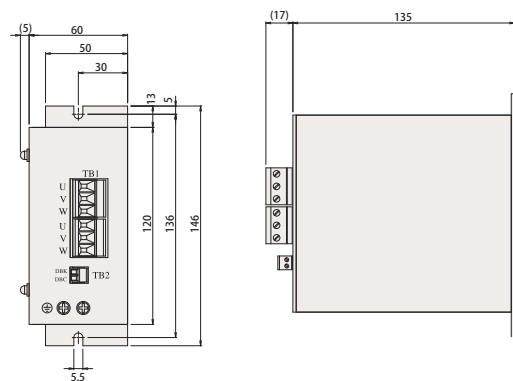
在驱动器主体发生错误以及停电等时,可防止连接的马达自由旋转。

| 伺服驱动器                               | 组合动态制动单元           |
|-------------------------------------|--------------------|
| 型号                                  | 型号                 |
| NCR-H□1101A/1201A-A-□□□             | NCR-XABCA2B-801-UL |
| NCR-H□2101A/2201A/2401A/2801A-A-□□□ | NCR-XABCA2B-222-UL |
| NCR-H□2152A/2222A-A-□□□             | NCR-XABCA2B-402-UL |
| NCR-H□2332A-A-□□□                   | NCR-XABCA2B-402-UL |
| NCR-H□2702A-A-□□□                   | NCR-XABCA2B-752-UL |
| NCR-H□2153A-A-□□□                   | NCR-XABCA2C-153    |

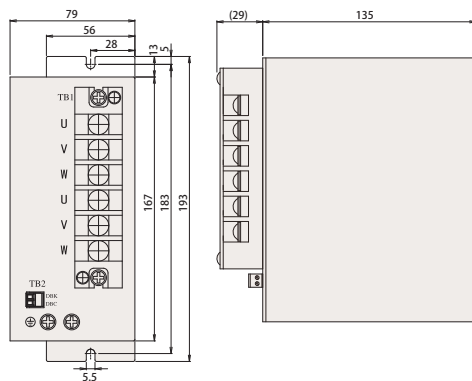
NCR-XABCA2B-801-UL



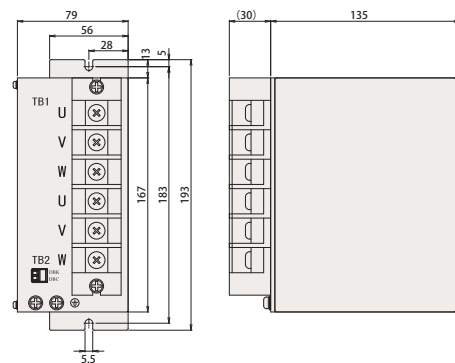
NCR-XABCA2B-222-UL



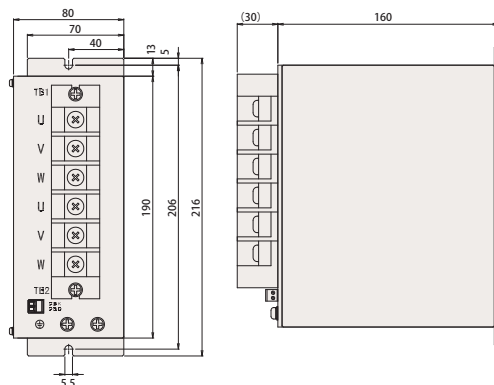
NCR-XABCA2B-402-UL



NCR-XABCA2B-752-UL  
NCR-XABCA2B-113-UL



NCR-XABCA2C-153



■ 再生电阻器

适用伺服  
驱动器

• VPH系列：全部类型

再生电阻器把两个系列(NCR-XAE系列、NCR-XAF系列)的产品加入到产品阵容中。两个系列上附带的恒温器规格不同。

详情请参照下述内容及VPH选配篇使用说明书。

| 伺服驱动器<br>型号                                                                   | 组合再生电阻器                                                          |     |             |    |             |
|-------------------------------------------------------------------------------|------------------------------------------------------------------|-----|-------------|----|-------------|
|                                                                               | 再生电阻器内容                                                          | 外形图 | NCR-XAE系列型号 |    | NCR-XAF系列型号 |
| NCR-H□1101A/1201A-A-□□□<br>NCR-H□2101A/2201A-A-□□□<br>NCR-H□2401A/2801A-A-□□□ | 水泥电阻 CAN60UT 82ΩJ<br>60W 82Ω×1个、恒温器一套 ※1                         | A-① | NCR-XAE1A2A | ※3 | NCR-XAF1A2A |
| NCR-H□2152A/2222A-A-□□□                                                       | 水泥电阻 CAN200UT 24ΩJ<br>200W 24Ω×1个、恒温器一套 ※1                       | A-① | NCR-XAE2A2A |    | NCR-XAF2A2A |
| NCR-H□2332A-A-□□□                                                             | 水泥电阻 CAN400UR 20ΩJ<br>400W 20Ω×1个、恒温器一套 ※1                       | A-② | NCR-XAE3A2A |    | NCR-XAF3A2A |
| NCR-H□2702A-A-□□□                                                             | 搪瓷电阻 RGH300G(0S) 30ΩJ<br>300W 30Ω×3个(并联连接 共900W 10Ω)<br>恒温器一套 ※2 | B-① | NCR-XAE4A2A | ※4 | NCR-XAF4A2A |
| NCR-H□2153A-A-□□□                                                             | 搪瓷电阻 RGH500G(0S) 22ΩJ<br>500W 22Ω×4个(并联连接 共2kW 5.5Ω)<br>恒温器一套 ※2 | B-① | NCR-XAE9A2A |    | NCR-XAF9A2A |

※ 关于是否需要选配的再生电阻器,请从本公司网站下载马达选定工具并进行确认。

(选定了HD-s系列时,请向营业担当人员咨询。)

※1 一套水泥电阻温控器,由恒温器×1个、恒温器安装板×1个组成。

※2 一套搪瓷电阻温控器,由恒温器×1个、恒温器安装绑带×1个、M4螺母×2个、M4螺丝×1颗组成

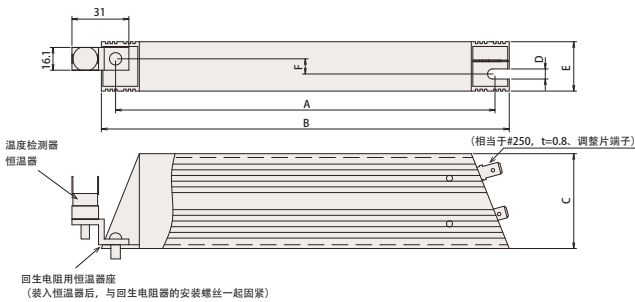
※3 附属恒温器的触点额定值 AC120V: 0.1~17A、AC240V: 0.1~17A

※4 附属恒温器的触点额定值 AC120V: 0.1~15A、AC240V: 0.1~10A

※5 附属恒温器的触点额定值 DC6~42V: 1~200mA、AC6~250V: 1~200mA

A-①：水泥电阻

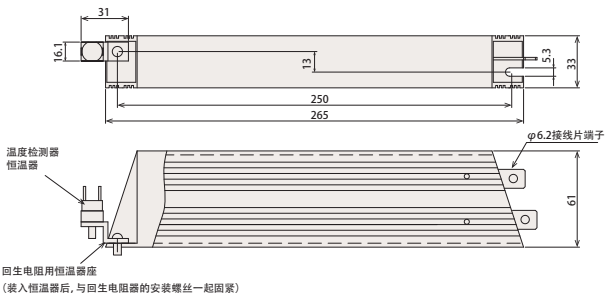
CAN60UT 82ΩJ/CAN200UT 24ΩJ



| 型号            | A   | B   | C  | D   | E  | F |
|---------------|-----|-----|----|-----|----|---|
| CAN60UT 82ΩJ  | 100 | 115 | 40 | 4.3 | 21 | 5 |
| CAN200UT 24ΩJ | 200 | 215 | 50 | 5.3 | 26 | 8 |

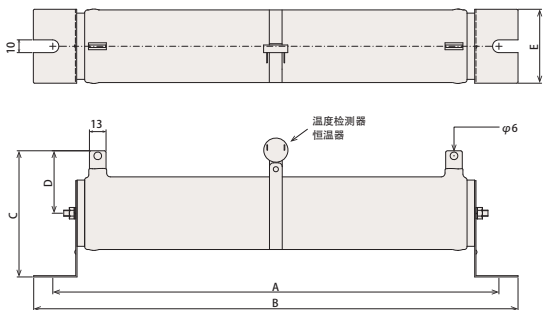
A-②：水泥电阻

CAN400UR 20ΩJ



B-①：搪瓷电阻

RGH300G(0S) 30ΩJ/RGH500G(0S) 22ΩJ



| 型号               | A   | B   | C  | D  | E  |
|------------------|-----|-----|----|----|----|
| RGH300G(0S) 30ΩJ | 304 | 334 | 84 | 44 | 40 |
| RGH500G(0S) 22ΩJ | 350 | 380 | 99 | 49 | 58 |

■ 对应海外规格的状况

| τ DISC            | 取得海外规格的马达类型名称                | 对应海外规格的状况                          |      | 本产品目录中登载的标准规格马达类型名称<br>(没有取得海外规格)             |
|-------------------|------------------------------|------------------------------------|------|-----------------------------------------------|
|                   |                              | UL / cUL 规格<br>(File No : E254021) | CE标志 |                                               |
| ND-s              | ND110-65/85-FS(P) B-UC(100V) | ○                                  | ○    | ND110-65-FS(P)、ND110-85-FS(P) (100V)          |
|                   | ND110-65/85-FS(P) B-UC(200V) | ○                                  | ○    | ND110-65-FS(P) N(0)、ND110-85-FS(P) (200V)     |
|                   | ND140-65-FS(P) -UC           | ○                                  | ○    | ND140-65-FS(P) N(0)                           |
|                   | ND140-70/95-LS(P) -UC        | ○                                  | ○    | ND140-70-LS(P) N(0)、ND140-95-LS(P) N(0)       |
|                   | ND180-55-FS(P) B-UC          | ○                                  | ○    | ND180-55-FS(P)                                |
|                   | ND180-70/95-LS(P) B-UC       | ○                                  | ○    | ND180-70-LS(P)、ND180-95-LS(P) N(0)            |
|                   | ND250-55-FS(P) B-UC          | ○                                  | ○    | ND250-55-FS(P)                                |
|                   | ND250-70/95-LS(P) B-UC       | ○                                  | ○    | ND250-70-LS(P)、ND250-95-LS(P) N(0)            |
|                   | ND400-65-FS(P) B-UC          | ○                                  | ○    | ND400-65-FS(P)                                |
| ND-s HS/DD-s/HD-s | ND400-70/95/160-LS(P) B-UC   | ○                                  | ○    | ND400-70-LS(P)、ND400-95-LS(P)、ND400-160-LS(P) |
|                   | —                            | —                                  | —    | 全部类型                                          |

※ 上述取得海外规格的产品,是与本产品目录中记载的标准规格不同的类型。取得海外规格的产品详情,请参照“τ DISC ND-s系列 UL/CE规格”产品目录。

※ 马达主体的外形、形状与标准规格相同。编码器全都是绝对式编码器类型。

※ 根据马达类型,额定转矩及最大转矩会与标准规格有所差异。

※ 根据马达类型,电力线缆和缆线接地的位置、形状会与标准规格有所差异。详情请向营业担当人员咨询。

| 伺服驱动器 | 输入电源     | 伺服驱动器型号(输出容量)                                                                                             | 伺服驱动器类型(规格)              | 对应海外规格的状况                          |      |      |
|-------|----------|-----------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------|------|------|
|       |          |                                                                                                           |                          | UL / cUL 规格<br>(File No : E251116) | CE标志 | KC认证 |
| VPH   | AC100V系统 | NCR-H□1101A-A-□□□(100W)<br>NCR-H□1201A-A-□□□(200W)                                                        | VPH-HA(I/O)              | ○                                  | —    | —    |
|       |          |                                                                                                           | VPH-HB(SSCNETIII/H)      |                                    |      |      |
|       |          |                                                                                                           | VPH-HC(CC-Link)          |                                    |      |      |
|       |          |                                                                                                           | VPH-HD(EtherCAT)         |                                    |      |      |
|       |          |                                                                                                           | VPH-HE(MECHATROLINK-III) |                                    |      |      |
|       | AV200V系  | NCR-H□2101A-A-□□□(100W)<br>NCR-H□2201A-A-□□□(200W)<br>NCR-H□2401A-A-□□□(400W)<br>NCR-H□2152A-A-□□□(1.5kW) | VPH-HA(I/O)              | ○                                  | ○    | ○※1  |
|       |          |                                                                                                           | VPH-HB(SSCNETIII/H)      |                                    |      | —    |
|       |          |                                                                                                           | VPH-HC(CC-Link)          |                                    |      | ○※1  |
|       |          |                                                                                                           | VPH-HD(EtherCAT)         |                                    |      | —    |
|       |          |                                                                                                           | VPH-HE(MECHATROLINK-III) |                                    |      | —    |
|       |          | NCR-H□2801A-A-□□□(800W)                                                                                   | VPH-HA(I/O)              | ○                                  | ○    | ○※1  |
|       |          |                                                                                                           | VPH-HB(SSCNETIII/H)      |                                    |      | —    |
|       |          |                                                                                                           | VPH-HC(CC-Link)          |                                    |      | ○※1  |
|       |          |                                                                                                           | VPH-HD(EtherCAT)         |                                    |      | —    |
|       |          |                                                                                                           | VPH-HE(MECHATROLINK-III) |                                    |      | —    |
|       |          | NCR-H□2222A-A-□□□(2.2kW)<br>NCR-H□2332A-A-□□□(3.3kW)                                                      | VPH-HA(I/O)              | ○                                  | ○    | ○※1  |
|       |          |                                                                                                           | VPH-HB(SSCNETIII/H)      |                                    |      | —    |
|       |          |                                                                                                           | VPH-HC(CC-Link)          |                                    |      | —    |
|       |          |                                                                                                           | VPH-HD(EtherCAT)         |                                    |      | —    |
|       |          |                                                                                                           | VPH-HE(MECHATROLINK-III) |                                    |      | —    |
|       |          | NCR-H□2702A-A-□□□(7kW)                                                                                    | VPH-HA(I/O)              | ○                                  | ○    | ○※1  |
|       |          |                                                                                                           | VPH-HB(SSCNETIII/H)      |                                    |      | —    |
|       |          |                                                                                                           | VPH-HC(CC-Link)          |                                    |      | —    |
|       |          |                                                                                                           | VPH-HD(EtherCAT)         |                                    |      | —    |
|       |          |                                                                                                           | VPH-HE(MECHATROLINK-III) |                                    |      | —    |
|       |          | NCR-H□2153A-A-□□□(15kW)                                                                                   | VPH-HA(I/O)              | —                                  | —    | —    |
|       |          |                                                                                                           | VPH-HB(SSCNETIII/H)      |                                    |      | —    |
|       |          |                                                                                                           | VPH-HC(CC-Link)          |                                    |      | —    |
|       |          |                                                                                                           | VPH-HD(EtherCAT)         |                                    |      | —    |
|       |          |                                                                                                           | VPH-HE(MECHATROLINK-III) |                                    |      | —    |

※1 带STO选配的VPH-HB/HC/HD/HE类型尚未对应KC认证。

■ 对应法令的状况

• 符合欧洲RoHS指令、中国版RoHS指令