-imited Edition News

High-speed response! Battery powered! 1 rank higher functions for your application!

High-speed Dispensing / Selection 3QR High-response specifications

Industry top level Response time **2**ms

Features high-response specifications

- High response
 - 2±0.5ms/1±0.5ms (ON/OFF)
- Long service life 100 million operations
- Coil surge voltage reduced

Applications





Dispenser

Taping machine

Battery drive / Continuous energization

3QR Free power supply specification

CKD

Industry's first Free power supply Solenoid

Patent pending

Features free power supply specifications

Can be used with 5 to 32 VDC Ideal for battery drive

Proprietary electronic circuit technology enables stable operation even with voltage fluctuations

Continuous energization enabled at low exoergic temps (0.9 W)



3QR high-response / Free power supply specifications

CKD Corporation

https://www.ckd.co.jp/en/ LN-006A Contact a CKD Sales representative for special specifications of this product.

Common specifications

Performance characteristic

Item	Description		
nem	High-response specifications	Free power supply specification	
Valve and operation	Direct acting poppet valve		
Working fluid	Compressed air, low vacuum		
Min. working pressure MPa	-100 kPa		
Max. working pressureMPa	0.7 MPa		
Proof pressure MPa	1.05 MPa		
Ambient temperature °C	-5 to 40°C (no freezing)	-5 to 50°C (no freezing)	
Fluid temperature °C	5 to 40	5 to 50	
Lubrication	Not available		
Degree of protection	Dust-proof		
Vibration resistance m/s ²	50 or less		
Shock resistance m/s ²	300 or less		
Atmosphere	Cannot be used in corrosive gas environments		

Electrical specifications

Item	Description		
nem	High-response specifications	Free power supply specification	
Rated voltage V	24 DC	5 to 32 DC	
Voltage fluctuation range	-10% to +4%	-	
Starting current A	0.38	0.4	
Holding current A	0.15	0.26	
Power consumption (holding)W	2.6	0.9	
Startup time ms	5	50	
Thermal class	В		

*1: High-response specifications cannot be used with continuous energization. Max. continuous energizing time 5 mins.

*2: The free power supply specification can be used with continuous power supply, but the accumulated time of the power supplied causes deterioration, resulting in shortening the service life operating cycle.

*3: Products will be sold after specifications are exchanged in the specification sheet.

2-position universal

Port 2: A, COM

Port 3: R. NO

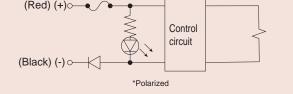
		Description				
Item		High-response specifications		Free power supply specification		2
		Direct piping	Base piping	Direct piping	Base piping	
Response time ^{•4} ms		ON:2±0.5ms		ON:5ms or less		
		OFF:1±0.5ms		OFF:10ms or less		
Flow Rate	Flow path $1 \rightarrow 2$	0.36	0.36	0.30	0.30	3 1
Characteristics	Flow path $2 \rightarrow 1$	0.38	0.40	0.32	0.34	Port Nos. 1, 2, 3 will display
dm ³ /(s.bar)	Flow path $2 \rightarrow 3$	0.38	0.40	0.32	0.36	the following:
	Flow path $3 \rightarrow 2$	0.36	0.40	0.30	0.34	Port 1: P, NC

*4: JIS B 8419:2010 Depending on dynamic performance test (supply pressure 0.5MPa, 20°C, no lubrication, constant voltage (24 VDC), initial values during continuous energization)

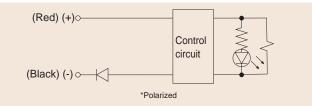
Connection circuit

How to order



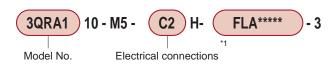


Free power supply specification

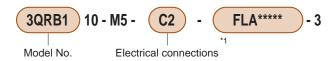


Both high-response and free power supply specifications have polarity. Note that incorrect wiring will cause inactivity.

High-response specifications



Free power supply specification



*1: Fill in the 5-digit number ***** after the order model number is selected.

*2: Large flow rate H cannot be selected for free power supply specifications.

*3: Manifold specifications can also be selected.

*4: Voltage for high response specifications is 24 VDC only.

If the goods and/or their replicas, the technology and/or software found in this catalog are to be exported from Japan, Japanese laws require the exporter makes sure that they will never be used for the development and/or manufacture of weapons for mass destruction.

Corporation [Website] https://www.ckd.co.jp/en/

Head Office / Plant Tokvo Office Osaka Office

2-250, Ouji, Komaki, Aichi 485-8551 TEL(0568)77-1111 FAX(0568)77-1123 4F, Bunkahousou Media Plus, 1-31-1, Hamamatsu-cho, TEL(03)5402-3620 FAX(03)5402-0120 Minato-ku, Tokyo 105-0013 6F, PMO EX Shin-Osaka, 4-2-10 Miyahara, TEL(06)6152-9415 FAX(06)4866-5391 Yodogawa-ku, Osaka 532-0003

• Specifications are subject to change without notice.

© CKD Corporation 2023 All copy rights reserved.