



## Pneumatic components (sensors) Safety Precautions

Be sure to read this section before use.  
For general pneumatic components precautions, refer to Intro 17 for details.

### Product-specific cautions: Multi-monitor MD Series

#### Design / Selection

#### WARNING

- Use this product in accordance with specifications.  
Use for applications, or at load currents, voltages, temperatures, impacts or sites excluded from the specifications could result in damage or malfunctions.
- Power supply voltage  
Do not use this product at levels exceeding the power supply voltage. If voltage exceeding this range or AC power supply (100 VAC) is applied, the controller could rupture or burn.
- Load short-circuit  
Do not short-circuit the load. Failure to observe this could result in rupture or burning.

#### CAUTION

- Working environment
  - Do not use the product in a location subject to vibration or shock of 100 m/s<sup>2</sup>.
  - Do not use this product in areas containing water droplets, oil droplets, or dust.
- Determine the setting taking error caused by accuracy and temperature characteristics into consideration.
- Take care when using this product for an interlock circuit.  
When using this product for an interlock signal requiring high reliability, provide a double interlock by installing a mechanical protection function or a switch (sensor) other than this product as a safeguard against breakdown.
- Corresponding sensor
  - The corresponding sensor is the voltage output (1-5 V) type. If the current output-type or other voltage output-type is connected, it will not operate properly.
  - The maximum supply current to the sensor is 100 mA. Check the specifications of the connected sensor before use.
  - As the compatible e-CON type varies depending on the sensor, select upon confirmation with Model No. Notation Method on page 580.
  - The FSM2 separated display sensor cannot be used as is, because the e-CON wiring pin array is different.

#### CE-compliance working conditions

The standard for the immunity for industrial environments used for CE conforming products is EN61000-6-2, but the following requirements must be satisfied in order to conform to this standard.

##### Conditions

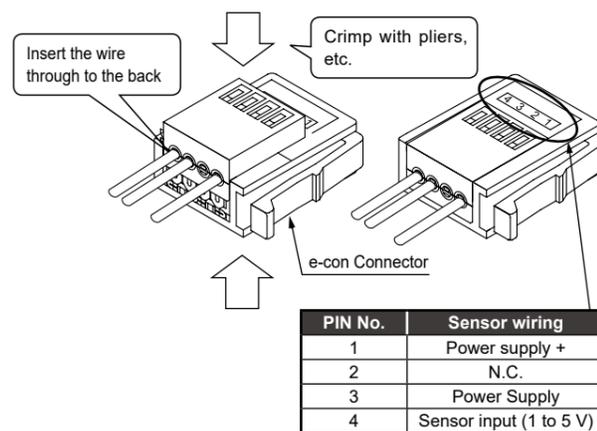
- The evaluation of this product is performed by using a cable that has a power supply line and a signal line paired to assess the product's performance.
- This product is not equipped with surge protection. Implement surge protection measures on the system side.

#### Range setting

When using this product, be sure to set the range and units.

#### Care must be taken for protection of body and lead wire.

- Check that stress is not directly applied to cable leadouts or connectors.
- Connect and wire bend-resistant material, such as robot wire material, for movable sections.
- For e-CON connector wiring, cut the tip of the sensor lead wire for use. Insert the wire through to the back of the connector, and securely crimp with pliers, etc. The wire sheath does not need to be removed.
- As the analog voltage output lead wire sheath color varies depending on the sensor, check the sensor specifications before e-CON wiring. Check that the pin No. and sensor wiring are correct before crimping. Incorrect wiring can result in malfunction, breakdown, or damage to the sensor or to this product.



For precautions during mounting, installation, adjustment, use and maintenance, refer to the CKD Components Product Site (<https://www.ckd.co.jp/kiki/en/>) → "Model No. → Instruction Manual"

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Multi-monitors

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