

Smart Sensor For Temperature and Humidity



014202-00

Applications

The compact Smart Sensor electronically measures temperature and humidity and converts measured data into a standardized analog 4 to 20 mA signal or an IO-Link protocol signal. The converted value signals can be used and processed by a control monitoring unit, e.g., a PLC control (*IO-Link devices require an IO-Link Master to communicate with a PLC*). The Smart Sensor is suitable for use in a wide variety of applications and can be used even in harsh environmental conditions, such as wind power.

Features

- Analog/I/O-Link digital interface
- Compact size
- DIN rail and/or screw mount
- High accuracy
- Quick connection (M12 plug-in connector)
- Wide temperature and humidity range
- Various application areas (IEC 61010-1/DIN EN 61010-1)

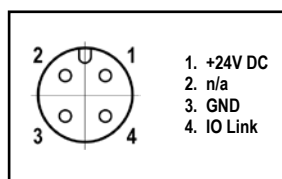
Listings

- UL Recognized File E500143

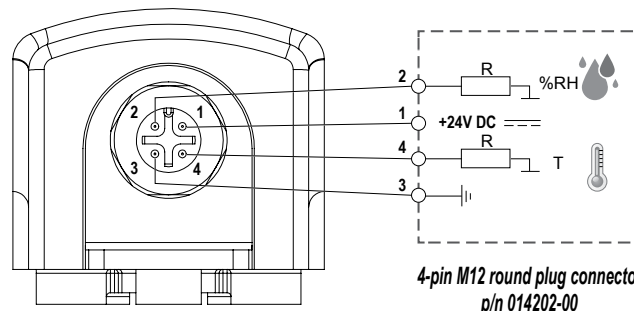


| Smart Sensors | | | |
|---------------------------|----------|--------------------|---------------------|
| Part Number | Price | Output | Drawing Link |
| 014202-00 | \$157.00 | 4-20 mA, 2 channel | PDF |
| 014112-00 | \$157.00 | I/O-Link | PDF |

| General Specifications | |
|-------------------------------------|--|
| Operating Voltage | 24 VDC |
| Temperature Measuring Range | -40 to 140°F [-40 to 60°C] ±1 K tolerance |
| Humidity Measuring Range | 0 to 100 % RH ±4 % RH tolerance |
| Max. Reaction Time | 3 minutes. |
| Load Resistance (External) | ≤ 500 Ω |
| Max. Power Consumption | 1.8 W (typically 0.4 W) |
| Connection | M12 round plug connector, IEC 61076-2-101, 4-pin, A-coded, shielded |
| Electrical Protection | Reverse-polarity, short circuit, overvoltage protection |
| Mounting | Clip for 35mm DIN rail, EN 60715 and screw mount (M5, not included) |
| Housing | Plastic, UL94 V-0, light gray |
| Dimensions | 5.5 x 1.6 x 1.5 in [140 x 40 x 38 mm] |
| Weight | Approx. 1.8 oz. [50g] |
| Mounting Position | Vertical (connection on top) |
| Operating Temperature | -40 to 158°F [-40 to 70°C] |
| Storage Temperature | -40 to 185°F [-40 to 85°C] |
| Operating / Storage Humidity | Max. 90% RH (non-condensing) |
| Protection Class | III (SELV) |
| Protection Type | IP20 |
| Approvals | EAC, CE, VDE, UL File Recognized File E500143), (acc. to IEC 61010-1 / DIN EN 61010-1) |



4-pin M12 round plug connector
p/n 014112-00



4-pin M12 round plug connector
p/n 014202-00