

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)

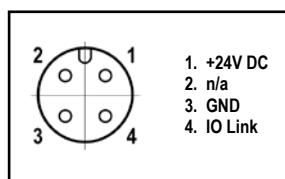
Listings

- UL Recognized File E500143

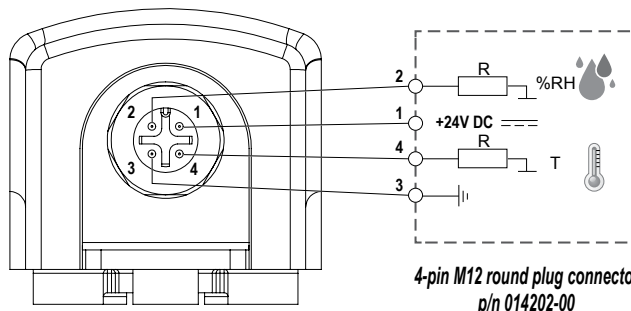


Smart Sensors			
Part Number	Price	Output	Drawing Link
014202-00	\$-0417x:	4-20 mA, 2 channel	PDF
014112-00	\$-05116:	I/O-Link	PDF

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