SMART SENSOR CLIMATE DIGITAL

CSS 014

The smart sensor measures temperature and air humidity and transmits signals digitally. The converted measured values are passed on as a standardized digital IO-Link signal. Control and monitoring units for industrial systems and machines receive the data from the smart sensor.

- Digital interface
- Quick connection: M12 male connector
- High measurement range and accuracy
- Compact dimensions
- Simple mounting: Clip or screw fixing

OVERVIEW TECHNICAL DATA

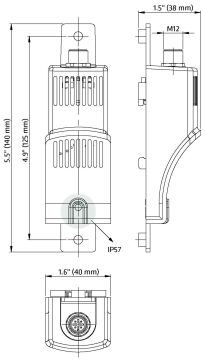
Measurement signal	Temperature, air humidity, event data, diagnostic data, device data
Electrical protection	Reverse polarity protection, short-circuit proof, overvoltage protection
Protection class	III
Protection type	IP20
Casing	Plastic to UL94 V-0, light gray
AC/DC	DC
Operating voltage	24 V
Power consumption	0,3 W
Measurement range	-40 °C - 80 °C
Measurement range tolerance	± 0,3 K
Measurement range 2	0 % RH - 100 % RH
Measurement range tolerance 2	± 3 % RH
Reaction time	1: t60 <195 s / 2: t60 <14 s
Operating temperature	-40 °C - 80 °C
Operating humidity	≤90 % RH
Storage humidity	≤90 % RH
Storage temperature	-40 °C - 85 °C
Connection	M12 round plug, IEC 61076-2-101, 4-pin, A-coded, shielded
Design	IO-Link (version 1.1); SSP 4.1.2
Mounting	Clip for 35 mm DIN rail, EN 60715 and M5 screw fixing
Height	140 mm
Width	40 mm
Depth	38 mm

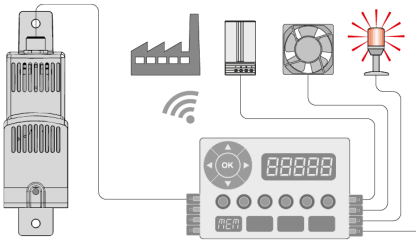
Weight	50 g
Note	Tolerance from +5 to +60°C (please request diagrams to view tolerances outside these ranges) / tolerance from 20 to 80% RH. The circuit board is painted on both sides with a certified protective lacquer to protect against condensation and thus corrosion and to increase creepage resistance.

PRODUCT VARIANTS

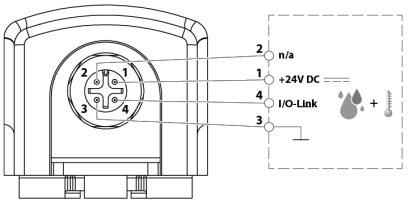
Article number
01411.2-01

TECHNICAL DRAWINGS





Connection example



Pin assignment for 4-pin
M12 round plug connector

SMART SENSOR CLIMATE ANALOG

CSS 014

The smart sensor measures temperature and air humidity and transmits analog signals. The converted measured values are passed on as a standardized analogue 4 - 20 mA signal. Control and monitoring units for industrial systems and machines are the recipients of the smart sensor's data.

- Analog interface
- Quick connection: M12 male connector
- High measurement range and accuracy
- Compact dimensions
- Simple mounting: Clip or screw fixing

OVERVIEW TECHNICAL DATA

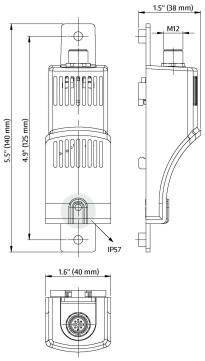
Measurement signal	Temperature, air humidity
Electrical protection	Reverse polarity protection, short-circuit proof, overvoltage protection
Protection class	III
Protection type	IP20
Casing	Plastic to UL94 V-0, light gray
AC/DC	DC
Operating voltage	24 V
Power consumption	1.8 W (typically 0.4 W) W
Measurement range	-40 °C - 60 °C
Measurement range tolerance	± 1 K
Measurement range 2	0 % RH - 100 % RH
Measurement range tolerance 2	± 4 % RH
Load resistance external	≤ 500 Ω
Reaction time	1: t60 <195 s / 2: t60 <14 s
Operating temperature	-40 °C - 70 °C
Operating humidity	≤90 % RH
Storage humidity	≤90 % RH
Storage temperature	-40 °C - 85 °C
Connection	M12 round plug, IEC 61076-2-101, 4-pin, A-coded, shielded
Design	4 - 20 mA
Mounting	Clip for 35 mm DIN rail, EN 60715 and M5 screw fixing
Height	140 mm
Width	40 mm

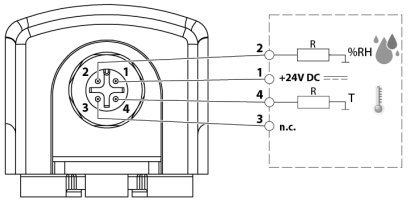
Depth	38 mm
Weight	50 g
Note	Tolerance from 20 to 80% rH/ tolerance from +5 to +60°C (please request diagram to view tolerances outside these ranges). The circuit board is painted on both sides with a certified protective lacquer to protect against condensation and thus corrosion and to increase creepage resistance.

PRODUCT VARIANTS

Article number
01420.2-00

TECHNICAL DRAWINGS





Pin assignment for 4-pin
M12 round plug connector