SMART SENSOR CLIMATE DIGITAL

CSS 014 | 01411.2-01



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

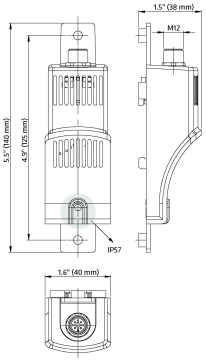
- Digital interface
- Quick connection: M12 male connector
- High measurement range and accuracy
- Compact dimensions
- Easy to attach: Clip or screw fixing

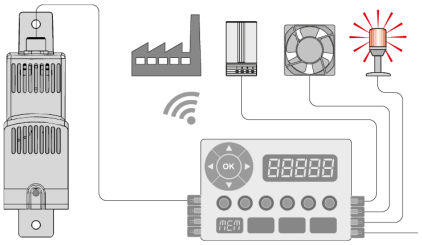
OVERVIEW TECHNICAL DATA

Device type	IO-Link products
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 grey
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

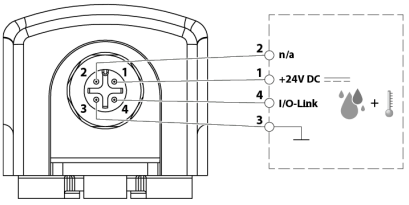
Note	Tolerance from +5 to +60°C (please request diagrams to view tolerances outside these ranges) / tolerance from 20 to 80% RH. The circuit board is painted on both sides with a certified protective lacquer to protect against condensation and thus corrosion and to increase creepage resistance.

TECHNICAL DRAWINGS





Connection example



Pin assignment for 4-pin
M12 round plug connector