SMART SENSOR CLIMATE DIGITAL

CSS 014 | IO-LINK, DC 24 V

- > Digital interface
- > Small size
- > Easy clip and/or screw fixing
- > Quick connection (M12 plug-in connector)
- > High accuracy
- > Large temperature and humidity range
- > Various application areas (IEC 61010-1/DIN EN 61010-1)

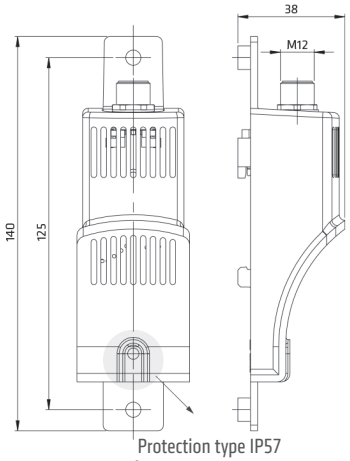
The compact Smart Sensor CSS 014 electronically records temperature and humidity and converts the measured data into a standardized digital IO-Link signal. The converted value signals can be utilized or further processed by a control or monitoring unit, e.g. a PLC control. The Smart Sensor CSS 014 is suitable for use in control cabinets and enclosures, but can also be installed in many new areas of application and can even be used in harsh environmental conditions, e.g. in the wind power industry. It is characterised by its combined perception and diagnostic capabilities, which significa-ntly contribute to the optimisation of digitalisation processes

IO-Link CE UKCA cULus DVE EAC RoHS 3

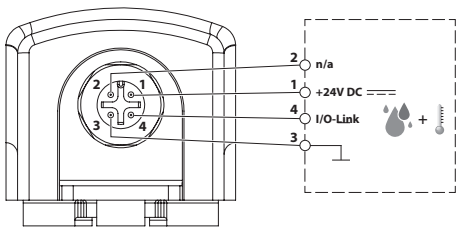
TECHNICAL DATA

Measuring signals digital (IO-Link)	temperature, humidity events, diagnosis, device data
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 35 mm DIN rail, EN 60715 and screw fixing M5
Casing	plastic according to UL94 V-0, light grey
Dimensions	140 x 40 x 38 mm
Weight	~ 50 g
Fitting position	vertical, connection on top
Storage temperature	-40 to +85 °C (-40 to +185 °F)
Operating/Storage humidity	< 90 % RH (non-condensing)
Protection type[1]/Protection class	IP20 (sensor only IP57) / III (SELV)
Approvals	VDE, UL File No. E500143 (acc. to IEC 61010-1/DIN EN 61010-1), EAC
Note	other measuring ranges on request

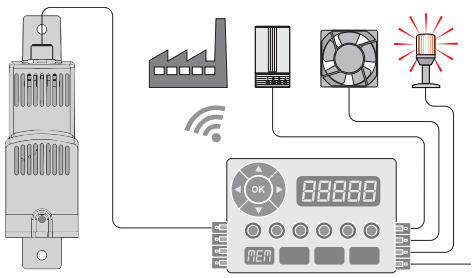
[1] The PCB (printed circuit board) is coated on both sides with a certified protective lacquer to protect against corrosion and for improvement of the tracking resistance.



Protection type IP57



Pin assignment for 4-pin M12 round plug connector



Example of connection

Art. No.	Interface	Operating voltage	Power consumption max.	Temperature measuring range	Humidity measuring range	Operating temperature
01411.2-01	IO-Link (digital, specified acc. to version 1.1)	DC 24 V (DC 18-30 V)	0.3 W	-40 to +80 °C (-40 to +176 °F) ± 0.3 K[2] (Max. reaction time t_{60} 195 s)	0 to 100% RH ± 3%[3] (Max. reaction time t_{60} 14 s)	-40 to +80 °C (-40 to +176 °F)

[2] Tolerance data measured at nominal voltage DC 24 V between +5 to +60°C
[3] Tolerance data measured at nominal voltage DC 24 V between 20 to 80 % RH

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15.09.2023 | Specifications are subject to change without notice. Errors and omissions excepted. Suitability of this product for its intended use and any associated risks must be determined by the end customer/buyer in its final application.