

# SMART SENSOR

CSS 014 | DC 24 V



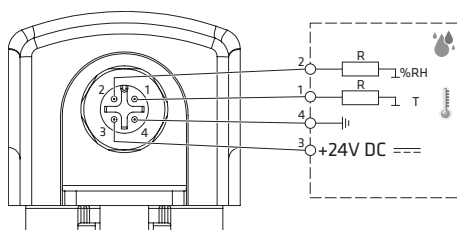
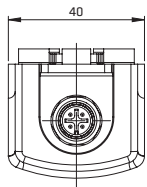
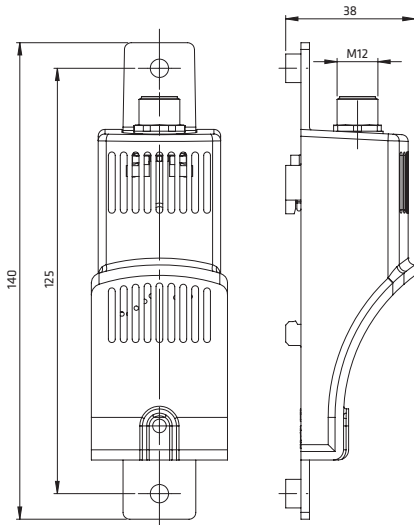
- > Analog interface
- > Small size
- > Easy clip and/or screw fixing
- > High accuracy
- > Quick connection (M12 plug-in connector)
- > Large temperature and humidity range
- > Various application areas (IEC 61010-1/DIN EN 61010-1)

The compact Smart Sensor CSS 014 electronically records temperature and humidity and converts the measured data into a standardized analog 4 to 20 mA 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 is suitable for use in a wide variety of applications and can be used even in harsh environmental conditions, such as wind power.

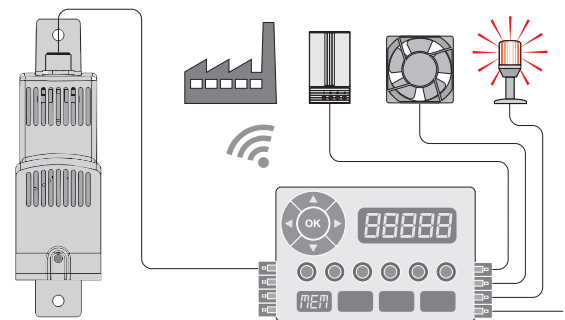


## TECHNICAL DATA

Temperature measuring range	-40 to +60 °C (-40 to +140 °F) ±1 K tolerance
Humidity measuring range	0 to 100 % RH ±4 % RH tolerance <sup>1</sup>
Max. reaction time	3 min.
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 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	approx. 50 g
Fitting position	vertical (connection on top)
Operating/Storage temperature	-40 to +70 °C (-40 to +158 °F) / -40 to +85 °C (-40 to +185 °F)
Operating/Storage humidity	max. 90 % RH (non-condensing)
Protection type/Protection class	IP20 / III (SELV)
Approvals	VDE and UL File No. E500143 (acc. to IEC 61010-1/DIN EN 61010-1)
Note	Other interfaces and measuring ranges on request



Pin assignment 4-pin M12 round plug connector



Example of connection

<sup>1</sup> Tolerance within 20 to 80 % RH (please request diagram for tolerances outside this range)

Art. No.	Interface	Operating voltage	Channels	Temperature measuring range	Humidity measuring range
01400.2-00	analog 4 – 20 mA	DC 24 V (DC 12 – 30 V)	2 x output	-40 to +60 °C (-40 to +140 °F)	0 to 100 % RH