STEGO INC.

SMART SENSOR
CSS 014 | DC 24 V

> **Analog/digital interface**
> **Small size**
> **Easy DIN rail and/or screw mount**
> **Quick connection**
>   **(M12 plug-in connector)**

> **High accuracy**
> **Large temperature and humidity range**
> **Various application areas**
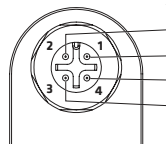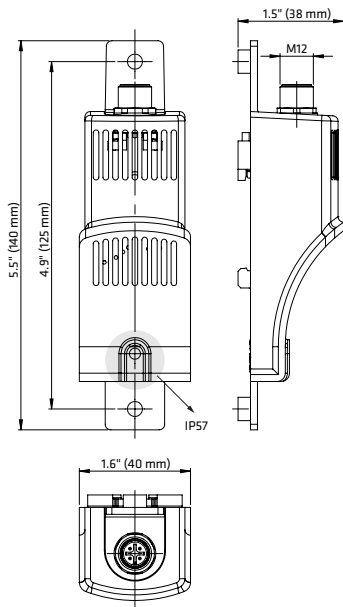>   **(IEC 61010-1/DIN EN 61010-1)**

The compact Smart Sensor CSS 014 electronically records temperature and humidity and converts the measured data into a standardized analog 4-20 mA or a 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 is suitable for installation inside and outside the enclosure, even in harsh environmental conditions as can be found in the wind power industry: in shielded outdoor areas and exposed to vibrations.
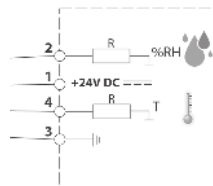
IO-Link CE cULus VDE EAC RoHS 3

TECHNICAL DATA

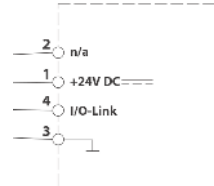|	
Measuring signals analog (4-20 mA)/digital (IO-Link) digital (IO-Link)	temperature, humidity events, diagnosis, device data
Max. reaction time	3 min.
Load resistance (external)	≤ 500 Ω (4-20 mA only)
Connection	M12 round plug connector, IEC 61076-2-101, 4-pin, A-coded, shielded
Electrical protection	Reverse-polarity, short circuit, overvoltage protection
Mounting	clip for 35 mm DIN rail, EN 60715 or M5 screws (not included)
Housing	plastic, UL94 V-0, light grey
Dimensions	5.5 x 1.6 x 1.5" (140 x 40 x 38 mm)
Weight	approx. 1.8 oz. (50 g)
Mounting position	vertical (connection on top)
Storage temperature	-40 to +185 °F (-40 to +85 °C)
Operating / Storage humidity	max. 90 % RH (non-condensing)
Protection type[1] / Protection class	IP20 (sensor only: IP57) / III (SELV)
Approvals	UL File No. E500143, VDE (according to IEC 61010-1/ DIN EN 61010-1), EAC
Note	other measuring ranges available upon 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.
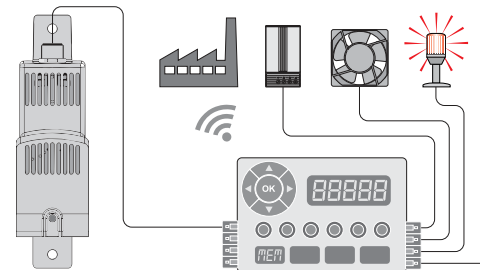

1.5" (38 mm)
M12
5.5" (140 mm)
4.9" (125 mm)
IP57
1.6" (40 mm)

Pin assignment for 4-pin
M12 round plug connector

analog 4-20 mA

IO-Link

Wiring Example

Part No.	Interface	Operating voltage	Power consumption max.	Temperature measuring range	Humidity measuring range	Operating temperature
01420.2-00	4-20 mA (analog)	DC 24 V (DC 12-30 V)	1.8 W (typically 0.4 W)	-40 to +140 °F (40 to +60 °C) ± 1 K	0 to 100 % RH ± 4%[2]	-40 to +158 °F (-40 to +70 °C)
01411.2-00	IO-Link (digital, specified acc. to version 1.1)	DC 24 V (DC 18-30 V)	0.3 W	-40 to +176 °F (-40 to +80 °C) ± 0.3 K	0 to 100% RH ± 3%[2]	-40 to +176 °F (-40 to +80 °C)

[2] Tolerance within 20 to 80 % RH (please request diagram for tolerances outside this range).