



PCS™-304

Capacitive proximity sensor

GENERAL SPECIFICATIONS

Operation

Measurement type

Measuring range

Output

Sensitivity

Accuracy

Repeatability

Residual noise

Bandwidth

Load at current output

Temperature drift

· Short circuit protection

Power Requirements

Voltage

Consumption

· Voltage reversal protection

Warm-up time

Connection

· Connector type

· Max. cable length

Environment

 Temperature range Operating

Storage

Humidity

Physical Characteristics

Sensor body

Sensing face

Non-contact proximity, capacitive technology

0.5 to 4.5 mm [19.7 to 177 mils]

4 to 20 mA

4 mA/mm [0.1 mA/mil]

 $\pm 2.5\%$ F.S.R. (calculated on a full scale range)

±0.5% F.S.R. (calculated on a full scale range)

 $\pm 50 \mu m$ (at mid-range)

0 to 1000 Hz (-3dB)

500 Ω max.

< 350 ppm/°C (at mid-range)

Built-in

24 Vdc ± 15%

60 mA max.

Built-in

5 minutes

5-position M12 male 300 m [984 ft]

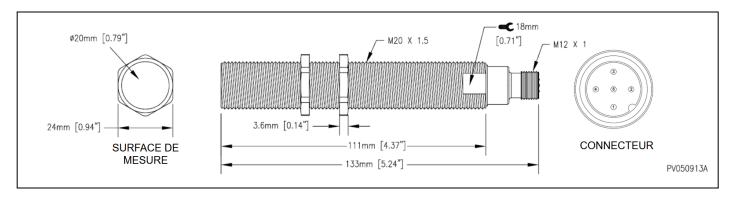
0 to 60 °C [32 to 140 °F] -25 to 70 °C [-13 to 158 °F]

Up to 95%, non-condensing

Stainless steel

Glass-reinforced laminate

DIMENSIONS

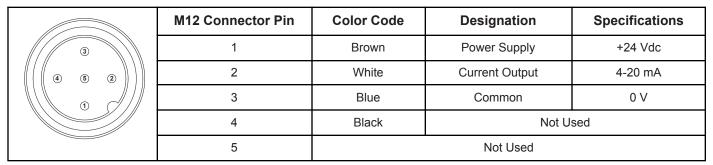






M12 CONNECTOR PINOUT

The following table shows the pin assignment for the A-coded, M12 male connector on the signal conditioner. The signal cable must be assembled as follows:



PRODUCT INFORMATION

Product Number	Description
VSM-PCS304	PCS-304 Capacitive proximity probe with built-in signal conditioner (0.5-4.5 mm)

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