



PCS™-302

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

0.3 to 2.3 mm [11.8 to 90.6 mils]

4 to 20 mA

8 mA/mm [0.2 mA/mil]

±1.25% F.S.R. (calculated on a full scale range)

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

±50µm (at mid-range)

0 to 1000 Hz (-3dB)

500 Ω max.

< 350 ppm/°C (at mid-range)

Built-in

24 Vdc \pm 15%

60 mA max.

Built-in

5 minutes

5-position M12 male

300 m [984 ft]

0 to 60 °C [32 to 140 °F]

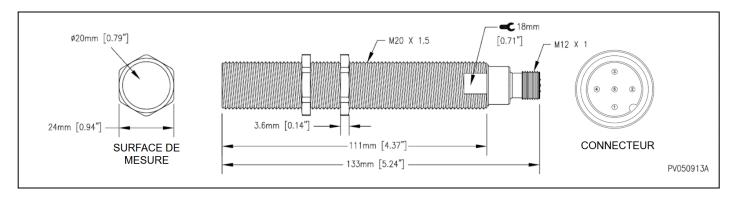
-25 to 70 °C [-13 to 158 °F]

Up to 95%, non-condensing

Stainless steel

Glass-reinforced laminate

DIMENSIONS

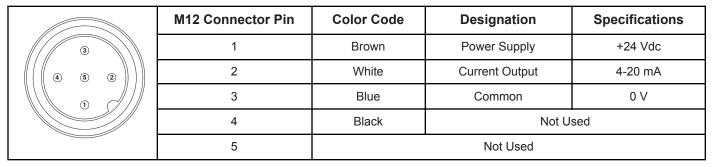






M12 CONNECTOR PINOUT

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-PCS302	PCS-302 Capacitive proximity probe with built-in signal conditioner (0.3-2.3 mm)

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