



# PCS<sup>™</sup>-302

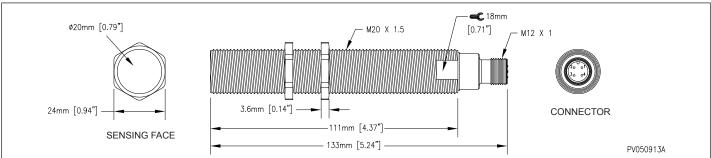
CAPACITIVE PROXIMITY SENSOR

# **GENERAL SPECIFICATIONS**

#### Operation

- Measurement type Non-contact proximity, capacitive technology Measuring range 0.3 to 2.3 mm [11.8 to 90.6 mils] • Output 4 to 20 mA Sensitivity 8 mA/mm [0.2 mA/mil] Accuracy ±1.25% FSR (calculated on a full scale range) • Repeatability  $\pm 0.5\%$  FSR (calculated on a full scale range) Bandwidth 0 to 1000 Hz (-3dB) 500 Ω max. Load at current output ٠ Temperature drift < 500 ppm/°C (at mid-range) • Short circuit protection Built-in **Power Requirements** Voltage 24 Vdc ± 15% • 70 mA max. Consumption Voltage reversal protection Built-in Warm-up time 5 minutes ٠ Connection Connector type 4-position M12 male 300 m [984 ft] Max. cable length **Environment** · Temperature range 0 to 60°C [32 to 140°F] Operating Storage -25 to 70°C [-13 to 158°F] Humidity Up to 95%, non-condensing **Physical Characteristics**
- Sensor body
- Sensing face

## DIMENSIONS



Nickel-plated brass

Glass-reinforced epoxy, FR-4

## **PRODUCT IDENTIFICATION**

Product Number	Description
VSM-PCS302	PCS-302 Capacitive Proximity Probe with built-in signal conditioner (0.3-2.3 mm)

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