



# M12PD

## ► M12 SERIES METAL 12MM BARREL-MOUNT SENSOR



M12 Series: Diffuse (Red)

Range: 400 m; Input 10-30V dc

Output: Complementary Solid State PNP

2 m (6.5 ft) Cable

Part Number: 77178

### CERTIFICATIONS




### SPECIFICATIONS


<b>Sensing Mode (General)</b>	Proximity
<b>Sensing Mode (Detailed)</b>	Diffuse
<b>Housing Style</b>	Barrel
<b>Primary Housing Material</b>	Nickel-Plated Brass
<b>Input/Output</b>	Discrete
<b>Max Sensing Range (mm)</b>	400
<b>Outputs</b>	PNP
<b>Power Supply/Supply Voltage</b>	10-30 V dc
<b>Connection</b>	2 m Cable
<b>Quick Disconnect Type</b>	No QD
<b>Sensing Beam</b>	Visible Red LED
<b>Operation</b>	Light/Dark Operate

<b>Max Op. Temp. (°C)</b>	60
<b>Min Op. Temp. (°C)</b>	-20
<b>Output response time (ms)</b>	0.5
<b>Special Feature: Intrinsically Safe</b>	No
<b>Special Feature: Remote Teach</b>	No
<b>Special Feature: Water Detection</b>	No
<b>IP Rating</b>	IP67, IP68
<b>Sensing Beam Wavelength</b>	660
<b>Delay at Power-up (ms)</b>	100
<b>Repeatability (µs)</b>	95
<b>Number of Pins</b>	4
<b>NEMA Rating</b>	NEMA 5, 6 and 1200 PSI Washdown
<b>Max Op. Relative Humidity [%]</b>	90% @ 50°C
<b>Lens Material</b>	PMMA
<b>Adjustments</b>	Potentiometer
<b>Barrel Diameter (mm)</b>	12
<b>Indicator</b>	LEDs
<b>Opposed Mode Emitter/Receiver</b>	N/A
<b>Feature: Washdown Rated</b>	Yes
<b>Feature: Timing (Hold/Delay)</b>	No
<b>Feature: Encapsulated</b>	Yes
<b>Feature: Hazardous Area</b>	No
<b>Feature: Audible</b>	No

## RECOMMENDED PRODUCTS

### ADAPTERS, BRACKETS, CLAMPS AND MOUNTING ACCESSORIES

	<p><b>SMBQS12PD</b></p> <p>Bracket: 12 mm Nose-mount; 16 gauge stainless steel</p>
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	<p><b>SMB12MM</b></p> <p>Bracket: Right Angle for 12mm threads; Material: 12 Gauge Stainless Steel; (+/-) 10 lateral movement ; Holes accommodate #8 hardware</p>
	<p><b>SMB12FA</b></p> <p>Bracket: Kit for 12 mm (1/2 in) Rod Bracket Systems for; most 12 mm barrel mount sensors; lights; and brackets; Includes 3/8-16 X 2 in. Socket Head Cap Screw (SHCS)</p>
	<p><b>SMB12FAM10</b></p> <p>Bracket: Kit for 10 mm (3/8 in) Rod Bracket Systems for; most 12 mm barrel mount sensors; lights; and brackets; Includes M10-1.5 X 50 mm Socket Head Cap Screw (SHCS)</p>



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