

PMW Series Inductive Proximity Sensors



M12 (12 mm) stainless steel – DC

- 8 models available
- Low cost/high performance
- IP67 rated
- LED status indicators are visible at a wide angle
- Triple distance models (shown) sense all metals at virtually the same distance, have one-piece stainless design, and are fully submersible up to 290 psi. Axial cable models have IP68 protection degree.

PMW Series M12 DC Inductive Prox Selection Chart								
Part Number		Sensing Range	Housing	Output State	Logic	Connection	Wiring	Dimensions
Standard Distance								
PMW-ON-1H	<--->	2mm (0.079in)	Shielded	N.O./N.C	NPN	M12 (12mm) connector	Diagram 1	Figure 1
PMW-OP-1H	<--->				PNP	M12 (12mm) connector	Diagram 1	Figure 1
Extended Distance								
PMW-ON-2H	<--->	4mm (0.157in)	Unshielded	N.O./N.C	NPN	M12 (12mm) connector	Diagram 1	Figure 1
PMW-OP-2H	<--->				PNP	M12 (12mm) connector	Diagram 1	Figure 1
Triple Distance								
PMW-AN-5A	<--->	6mm (0.236in)	Shielded	N.O.	NPN	2m (6.5') axial cable	Diagram 2	Figure 2
PMW-AP-5A	<--->				PNP	2m (6.5') axial cable	Diagram 2	Figure 2
PMW-AN-5H	<--->				NPN	M12 (12mm) connector	Diagram 2	Figure 3
PMW-AP-5H	<--->				PNP	M12 (12mm) connector	Diagram 2	Figure 3

Wiring diagrams

Diagram 1

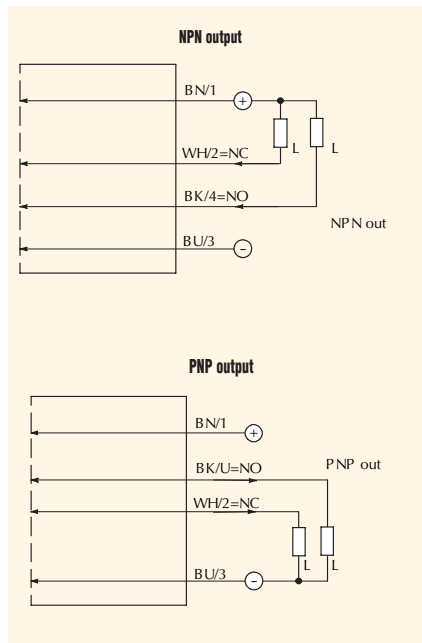
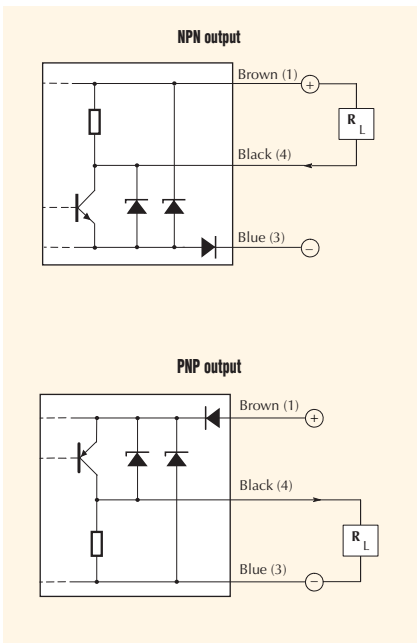
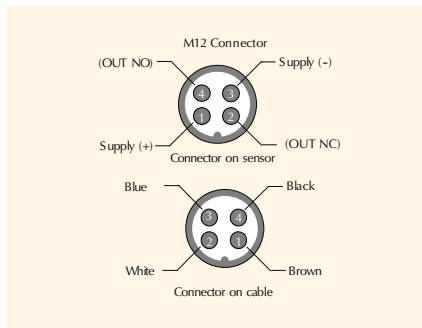


Diagram 2



Connectors



Cables and Accessories

Cables and accessories can be found starting on page 17–48.

PMW Series Inductive Proximity Sensors

Specifications	Standard Distance Models	Extended Distance Models	Triple Distance Models
Type	Shielded	Unshielded	Shielded
Operating Distance	2mm (0.079in) ¹	4mm (0.157in) ¹	6mm (0.236in)
Material Correction Factors	*See Material Influence table #1		*See Material Influence table #3
Differential Travel	2 to 10%		≤15%
Repeat Accuracy	≤5%		
Operating Voltage	10-30VDC		
Ripple	≤10%		≤20%
Load Current	≤100mA		≤200mA
Voltage Drop	≤1.2V		≤2.0V
Output Type	NPN or PNP and N.O./N.C. complementary		NPN or PNP, N.O. only
Leakage Current	≤10μA		≤100μA
Switching Frequency	2kHz		400Hz
(tv) Time Delay Before Availability	100ms		≤10ms
Temperature Range / Temperature Drift	-25° to +70° C (-13° to 158° F) / 10%Sr		
Protection Degree (DIN 40050)	IEC IP67/68 ²		IEC IP67 ² (connector/IP68 ³ (cable)
LED Indicators	Yellow (N.O. output energized)		
Housing Material	Stainless steel		Stainless steel
Sensing Face Material	PPS		Stainless steel
Tightening Torque	10Nm (7.25-in/ lbs)		
Weight	35g (1.23oz)		89g (3.14oz)/24g (0.85oz)

¹With 12 x 12mm FE360 target ²Only with M12 connector in fully-tightened position. While this sensor has good resistance to chemicals and oil, it should be tested before using in a harsh environment. ³Fully submersible to 290 psi.

*See Material Influence tables #1 and #3 on page 17-53

Dimensions

Figure 1

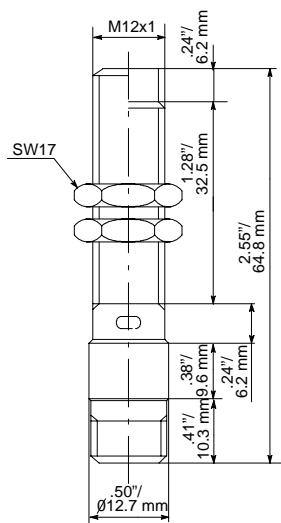


Figure 2

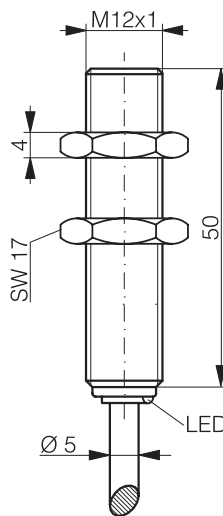


Figure 3

