

PTW SERIES INDUCTIVE PROXIMITY SENSORS



M30 (30mm) stainless steel - DC

- 4 models available/Low cost/high performance
- M12 quick-disconnect models rated IP67, axial cable models rated IP68
- LED status indicators are visible at a wide angle
- Sense all metals at the same distance
- One-piece stainless design

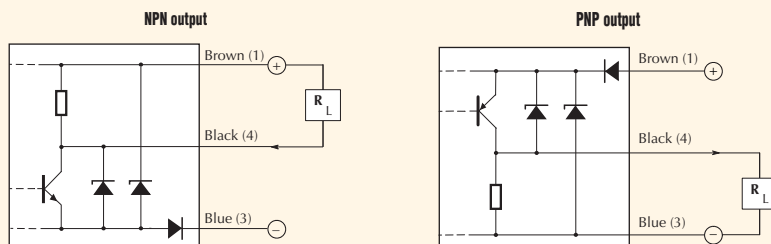
PTW Series M30 DC SS Inductive Prox Selection Chart							
Part Number	Price	Sensing Range	Housing	Output State	Logic	Connection	Dimensions
PTW-AN-5A	<-->	20mm (0.787in)	Shielded	N.O	NPN	2m (6.5') axial cable	Figure 1
PTW-AP-5A	<-->				PNP	2m (6.5') axial cable	Figure 1
PTW-AN-5H	<-->				NPN	M12 (12mm) connector	Figure 2
PTW-AP-5H	<-->				PNP	M12 (12mm) connector	Figure 2

Specifications	
Type	Shielded
Operating Distance	20mm (0.787in)
Material Correction Factors	*See Material Influence table #3
Differential Travel	≤15%
Repeat Accuracy	≤5%
Operating Voltage	10-30VDC
Ripple	≤20%
Load Current	≤200mA
Voltage Drop	≤2.0V
Output Type	NPN or PNP, N.O. only
Leakage Current	≤100µA
Switching Frequency	100Hz
(tv) Time Delay Before Availability	≤10ms
Temperature Range / Temperature Drift	-25° to +70° C (-13° to 158° F) / 10%/Sr
Protection Degree (DIN 40050)	IEC IP67 ¹ (connector) IP68 ¹ (cable)
LED Indicators	Yellow (N.O. output energized) ⁷
Housing Material	Stainless steel
Sensing Face Material	Stainless steel
Tightening Torque	150Nm (111lb./in.)
Weight	114g (4.02oz)/50g (1.76oz)

¹ Fully submersible to 290 psi (20 bar).

*See Material Influence table #3 on page 17-53

Wiring diagrams



Dimensions

Figure 1

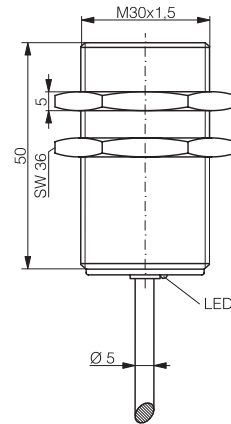
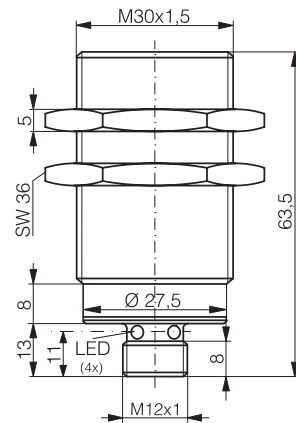
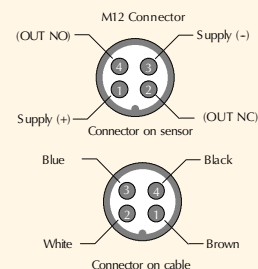


Figure 2



Cables and accessories

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



PROXIMITY SENSORS ACCESSORIES: CABLES

Cables with quick-disconnect plugs



- Industry standard M8 and M12 screw-lock connectors
- Axial cable and right-angle connector models available
- Available in 2m, 5m, and 7m cable lengths
- PVC (polyvinyl chloride) jacket available for typical industrial applications
- PUR (polyurethane) jacket available for oily and direct sunlight applications
- IP67 rated

Dimensions

Figure 1

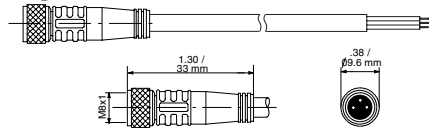


Figure 2

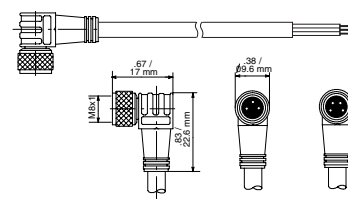


Figure 3

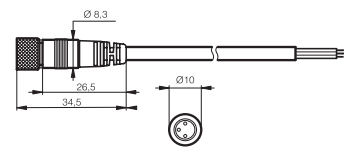


Figure 4

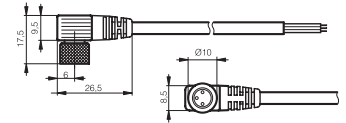


Figure 5

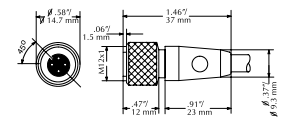
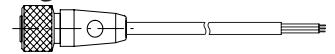


Figure 6

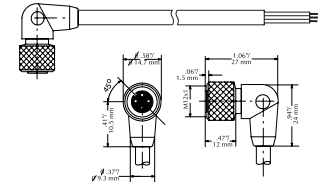


Figure 7

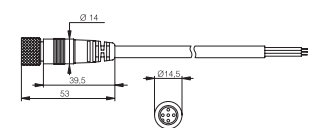
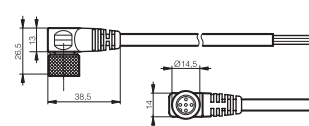


Figure 8



M8 Quick-Disconnect Cables						
Part Number	Price	Length	Poles	Connector	Jacket	Dimensions
M8 Quick-Disconnects						
CD08-0A-020-A1	<--->	2m (6.5ft.)	3	Axial	PVC	Figure 1
CD08-0A-020-C1	<--->	2m (6.5ft.)	3	Right-angle	PVC	Figure 2
CD08-0A-050-A1	<--->	5m (16.4ft.)	3	Axial	PVC	Figure 3
CD08-0C-050-A1	<--->	5m (16.4ft.)	3	Axial	PUR	Figure 3
CD08-0A-050-C1	<--->	5m (16.4ft.)	3	Right-angle	PVC	Figure 4
CD08-0C-050-C1	<--->	5m (16.4ft.)	3	Right-angle	PUR	Figure 4
CD08-0A-070-A1	<--->	7m (23ft.)	3	Axial	PVC	Figure 1
CD08-0A-070-C1	<--->	7m (23ft.)	3	Right-angle	PVC	Figure 2

M12 Quick-Disconnect Cables						
Part Number	Price	Length	Poles	Connector	Jacket	Dimensions
M12 Quick-Disconnects						
CD12L-0B-020-A0	<--->	2m (6.5ft.)	4	Axial	PVC	Figure 5
CD12L-0B-020-C0	<--->	2m (6.5ft.)	4	Right-angle	PVC	Figure 6
CD12M-0B-050-A1*	<--->	5m (16.4ft.)	3	Axial	PVC	Figure 7
CD12M-0D-050-A1*	<--->	5m (16.4ft.)	3	Axial	PUR	Figure 7
CD12M-0B-050-C1*	<--->	5m (16.4ft.)	3	Right-angle	PVC	Figure 8
CD12M-0D-050-C1*	<--->	5m (16.4ft.)	3	Right-angle	PUR	Figure 8
CD12M-0B-070-A1	<--->	7m (23ft.)	4	Axial	PVC	Figure 5
CD12M-0B-070-C1	<--->	7m (23ft.)	4	Right-angle	PVC	Figure 5

* Note: Do not use with SU and TU series.

Cable Specifications	M8		M12	
Length	2m (6.5ft.)/ 7m (23ft.)	5m (16.4ft.)	2m (6.5ft.)/ 7m (23ft.)	5m (16.4ft.)
Nominal Voltage	50VAC/75VDC	60VAC/75VDC	300VAC	60VAC/75VDC
Nominal Current	4A	1.5A	4A	1.5A
Protection Degree	IEC IP67		IEC IP67	
Contact Body Material	ABS	PUR	ABS	PUR
Housing Material	PUR		PUR	
Contacts Material	CuSn	CuZn	CuSn	CuZn
Conductors Section	0.34mm ²		0.34mm ²	
Ø Outer Cable	5mm		5mm	
Temperature Range	-25° to +70°C (-13° to 158°F)		-25° to +70°C (-13° to 158°F)	

PROXIMITY SENSORS ACCESSORIES: EXTENSION CABLES



Extension cables with quick-disconnect plugs on each end

Available extension cables include:

- Industry standard M8 and M12 screw-lock connectors
- Axial and right-angle connector models
- 1m and 3m cable lengths
- PVC (polyvinyl chloride) jacket for typical industrial applications
- IP67 rated

Dimensions

Figure 1

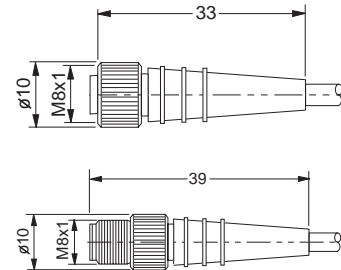


Figure 2

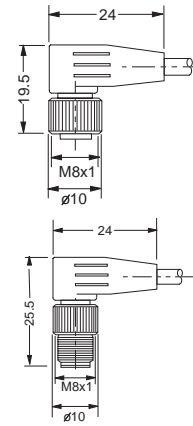


Figure 3

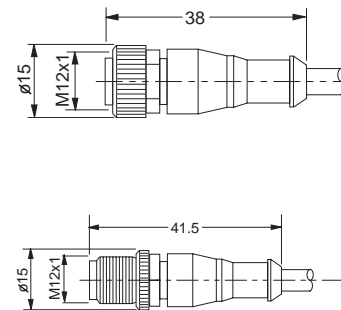
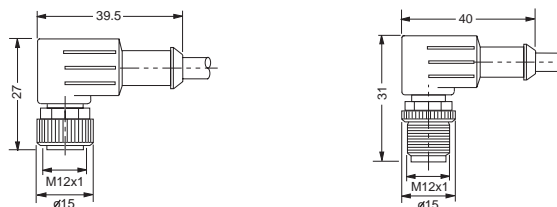


Figure 4



M8 Extension Cables with Quick-Disconnect on each end						
Part Number	Price	Length	Poles	Connectors	Jacket	Dimensions
M8 Quick-Disconnect Extension Cables						
CDP08-0A-010-AA	<-->	1m (3.28ft.)	3	2 Axial	PVC	Figure 1
CDP08-0A-010-BB	<-->	1m (3.28ft.)	3	2 Right-angle	PVC	Figure 2
CDP08-0A-030-AA	<-->	3m (9.84ft.)	3	2 Axial	PVC	Figure 1
CDP08-0A-030-BB	<-->	3m (9.84ft.)	3	2 Right-angle	PVC	Figure 2

M12 Extension Cables with Quick-Disconnect on each end						
Part Number	Price	Length	Poles	Connectors	Jacket	Dimensions
M12 Quick-disconnect Extension Cables						
CDP12-0B-010-AA	<-->	1m (3.28ft.)	4	2 Axial	PVC	Figure 3
CDP12-0B-010-BB	<-->	1m (3.28ft.)	4	2 Right-angle	PVC	Figure 4
CDP12-0B-030-AA	<-->	3m (9.84ft.)	4	2 Axial	PVC	Figure 3
CDP12-0B-030-BB	<-->	3m (9.84ft.)	4	2 Right-angle	PVC	Figure 4

Cable Specifications	M8 / M12
Length	1m (3.28ft.)/ 3m (9.84ft.)
Nominal Voltage	50VAC/75VDC
Nominal Current	4A
Protection Degree	IEC IP67
Contact Body Material	ABS
Housing Material	PUR
Contacts Material	CuSn
Conductors Section	0.34mm ²
Ø Outer Cable	5mm
Temperature Range	-25° to +70°C (-13° to 158°F)

