DR10 Series Inductive Proximity Sensors

10 x 16 mm plastic – DC





- Complete overload protection
- IP67 rated
- Purchase cable separately
- Lifetime warranty



DR10 Series Rectangular DC Inductive Proximity Selection Chart									
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions	
DR10-AN-1A	\$30.50		mm [0.118 in] Flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1	
DR10-AP-1A	\$30.50	3mm [0.118 in]			PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1	
DR10-AN-1F	\$30.50				NPN	M8 [8mm] connector	Diagram 1	Figure 2	
DR10-AP-1F	\$30.50				PNP	M8 [8mm] connector	Diagram 2	Figure 2	
DR10-AN-2A	\$30.50		Non-flush N		NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1	
DR10-AP-2A	\$30.50	6mm [0.236 in]		N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1	
DR10-AN-2F	\$30.50				NPN	M8 [8mm] connector	Diagram 1	Figure 2	
DR10-AP-2F	\$30.50				PNP	M8 [8mm] connector	Diagram 2	Figure 2	

DR10 Series Rectangular DC Inductive Proximity Specifications						
Mounting Type	Flush	Non-flush				
Nominal Distance	3mm [0.118in]	6mm [0.236in]				
Operating Distance	NA NA					
Material Correction Factors	See the Material influence table					
Output Type	NPN or PNP/N.O. only/3-wire					
Operating Voltage	10-30VDC					
No-load Supply Current	≤ 10mA					
Operating (Load) Current	≤ 300mA					
Off-state (Leakage) Current	≤ 10µA					
Voltage Drop	≤ 1.5 V					
Switching Frequency	3kHz					
Differential Travel	≤ 1-10%					
Repeat Accuracy	≤ 1%					
Ripple	m 10%					
Time Delay Before Availability (tv)	2ms					
Reverse Polarity Protection	Yes					
Short-Circuit Protection	Yes [switch auto-resets after overload is removed]					
Operating Temperature	-25 to +75° C [-13 to 167° F]					
Protection Degree (DIN 40050)	IEC IP67					
Indication/Switch Status	Yellow [output energized]					
Housing Material	Plastic					
Sensing Face Material	Plastic					
Shock/Vibration	See Proximity Sensor Terminology					
Tightening Torque	NA					
Weight	113g [3.99oz]/6g [0.21oz]					
Connection	2m [6.5 ft] PVC axial cable or M8 [8mm] connector					
Agency Approvals	CE					

Dimensions

mm [inches]

Figure 1

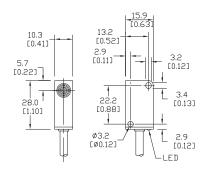
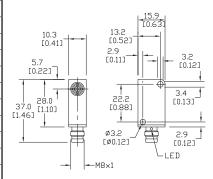


Figure 2



Wiring Diagrams

Diagram 1
NPN Output

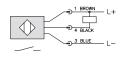
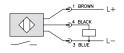


Diagram 2
PNP Output



Connector M8 connector

