

DR10 Series Inductive Proximity Sensors

10 x 16 mm plastic – DC

- Eight models available
- Compact plastic housing
- Axial cable or M8 quick-disconnect models
- Complete overload protection
- IP67 rated
- Purchase cable separately
- Lifetime warranty



DR10 Series Rectangular DC Inductive Prox Selection Chart								
Part Number	Price	Sensing Range	Housing	Output State	Logic	Connection	Wiring	Dimensions
DR10-AN-1A	\$26.00	3mm (0.118in)	Shielded	NO	NPN	2m (6.5') axial cable	Diagram 1	Figure 1
DR10-AP-1A	\$26.00				PNP	2m (6.5') axial cable	Diagram 2	Figure 1
DR10-AN-1F	\$26.00				NPN	M8 (8mm) connector	Diagram 1	Figure 2
DR10-AP-1F	\$26.00				PNP	M8 (8mm) connector	Diagram 2	Figure 2
DR10-AN-2A	\$26.00	6mm (0.236in)	Unshielded	N.O.	NPN	2m (6.5') axial cabl	Diagram 1	Figure 1
DR10-AP-2A	\$26.00				PNP	2m (6.5') axial cable	Diagram 2	Figure 1
DR10-AN-2F	\$26.00				NPN	M8 (8mm) connector	Diagram 1	Figure 2
DR10-AP-2F	\$26.00				PNP	M8 (8mm) connector	Diagram 2	Figure 2

Dimensions

mm [inches]

Figure 1

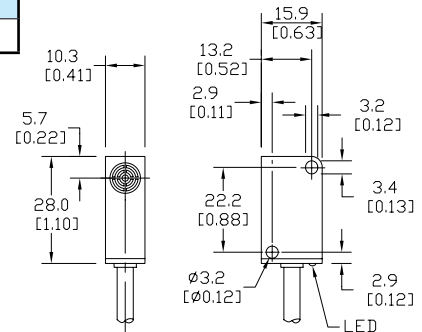
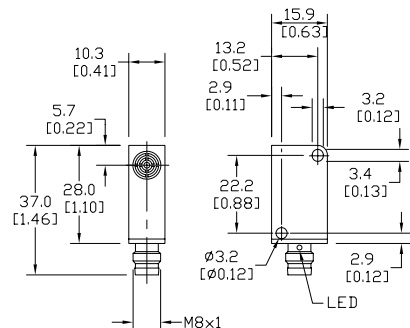


Figure 2



Specifications		
Mounting Type	Shielded	Unshielded
Nominal Distance	3mm (0.118in)	6mm (0.236in)
Operating Distance	NA	
Material Correction Factors	See the Material influence table	
Output Type	NPN or PNP/NO 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	≤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	

Wiring diagrams

Diagram 1

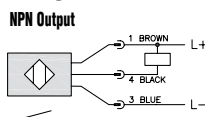
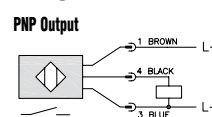


Diagram 2



Connector

M8 connector

