

# DR10 Series Inductive Proximity Sensors

## 10 x 16 mm Plastic – DC



- 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 Proximity Selection Chart

Part Number	Price	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions
<b>DR10-AN-1A</b>	\$09gn:	3mm [0.118 in]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
<b>DR10-AP-1A</b>	\$09gs:				PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
<b>DR10-AN-1F</b>	\$09go:				NPN	M8 [8mm] connector	Diagram 1	Figure 2
<b>DR10-AP-1F</b>	\$:09gt:				PNP	M8 [8mm] connector	Diagram 2	Figure 2
<b>DR10-AN-2A</b>	\$09gp:	6mm [0.236 in]	Non-flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
<b>DR10-AP-2A</b>	\$09gu:				PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
<b>DR10-AN-2F</b>	\$09gq:				NPN	M8 [8mm] connector	Diagram 1	Figure 2
<b>DR10-AP-2F</b>	\$09gv:				PNP	M8 [8mm] connector	Diagram 2	Figure 2

### DR10 Series Rectangular DC Inductive Proximity Specifications

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

## Dimensions

mm [inches]

Figure 1

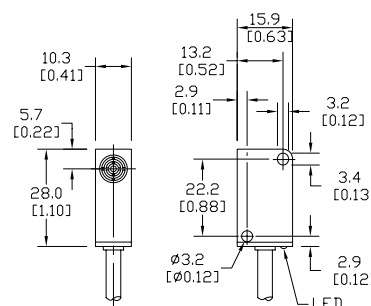
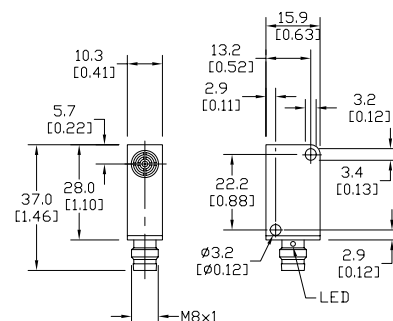
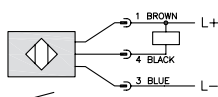
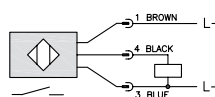


Figure 2



## Wiring Diagrams

Diagram 1  
NPN OutputDiagram 2  
PNP OutputConnector  
M8 connector