

# CR5 Series Inductive Proximity Sensors



## 5 x 5 mm rectangular metal - DC

- Eight models available
- Compact 5 x 5 x 25 mm metal housing
- Axial cable or M8 quick-disconnect models
- Complete overload protection
- IP67 rated
- Screws included

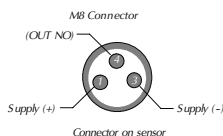
CR5 Series 5x5 Rectangular DC Inductive Prox Selection Chart						
Part Number	Sensing Range	Housing	Output State	Logic	Connection	Dimensions
<b>Standard Distance</b>						
CR5-AN-1A	0.8mm (0.03in)	Shielded	N.O.	NPN	2m (6.5') axial cable	Figure 1
CR5-AP-1A				PNP	2m (6.5') axial cable	Figure 1
CR5-AN-1F				NPN	M8 (8mm) connector	Figure 2
CR5-AP-1F				PNP	M8 (8mm) connector	Figure 2
<b>Extended Distance</b>						
CR5-AN-2A	1.5mm (0.059in)	Shielded	N.O.	NPN	2m (6.5') axial cable	Figure 1
CR5-AP-2A				PNP	2m (6.5') axial cable	Figure 1
CR5-AN-2F				NPN	M8 (8mm) connector	Figure 2
CR5-AP-2F				PNP	M8 (8mm) connector	Figure 2

Specifications	Standard Distance Models	Extended Distance Models
Type	Shielded	Shielded
Operating Distance	0.8mm (0.03in)	1.5mm (0.059in)
Material Correction Factors	*See Material Influence table #1	
Differential Travel	≤10%	
Repeat Accuracy	≤1.5%	
Operating Voltage	10-30VDC	
Ripple	≤20%	
No-load Supply Current	≤10mA	
Load Current	≤200mA	
Leakage Current	≤10µA	
Voltage Drop	≤2.0 V	
Output Type	NPN or PNP/N.O. only/three wire	
Switching Frequency	5kHz	3kHz
(tv) Time Delay Before Availability	10ms	
Input Voltage Transient Protection	Up to 30VDC	
Input Power Polarity Reversal Protection	Yes	
Output Power Short-Circuit Protection	Yes (switch auto-resets after overload is removed)	
Temperature Range	-25° to +70° C (-13° to 158° F)	
Temperature Drift	10% Sr	
Protection Degree (DIN 40050)	IEC IP67	
LED Indicators	Yellow (output energized)	
Housing Material	Nickel-plated brass	
Sensing Face Material	Polyester	
Tightening Torque	1.5Nm (13.3lb./in)	
Weight	26g (0.92oz)	27g (0.95oz)

\*See Material Influence table #1 on page 17-53

### Cables and Accessories

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



## Dimensions

Figure 1

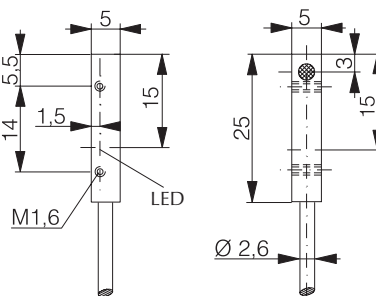
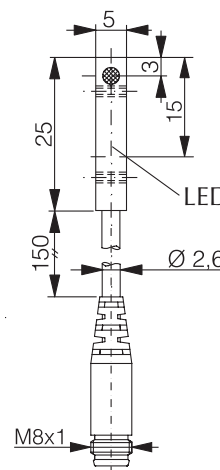
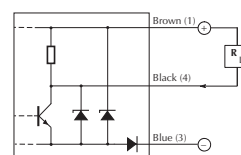


Figure 2



## Wiring diagrams

NPN output



PNP output

