

# CR8 Series Inductive Proximity Sensors



## 8 x 8 mm rectangular metal – DC

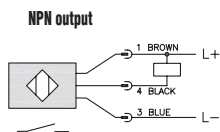
- 12 models available
- Compact 8 x 8 x 40 mm metal housing
- Axial cable or M8 quick-disconnect models; purchase cable separately
- Complete overload protection
- IP67 rated
- Screws included
- Lifetime warranty

**CR8 Series 8x8 Rectangular DC Inductive Prox Selection Chart**

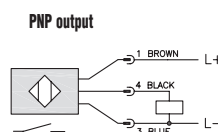
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions
<b>Standard Distance</b>								
<b>CR8-AN-1A</b>	\$26.50	0-1.5 mm (0-0.06 in)	Flush	NO	NPN	2 m (6.5') axial cable	Diagram 1	Figure 1
<b>CR8-AP-1A</b>	\$26.50	0-1.5 mm (0-0.06 in)	Flush	NO	PNP	2 m (6.5') axial cable	Diagram 2	Figure 1
<b>CR8-AN-1F</b>	\$26.50	0-1.5 mm (0-0.06 in)	Flush	NO	NPN	M8 (8 mm) connector	Diagram 1	Figure 2
<b>CR8-AP-1F</b>	\$26.50	0-1.5 mm (0-0.06 in)	Flush	NO	PNP	M8 (8 mm) connector	Diagram 2	Figure 2
<b>Extended Distance</b>								
<b>CR8-AN-2A</b>	\$36.50	0-2 mm (0-0.08 in)	Flush	NO	NPN	2 m (6.5') axial cable	Diagram 1	Figure 1
<b>CR8-AP-2A</b>	\$36.50	0-2 mm (0-0.08 in)	Flush	NO	PNP	2 m (6.5') axial cable	Diagram 2	Figure 1
<b>CR8-AN-2F</b>	\$36.50	0-2 mm (0-0.08 in)	Flush	NO	NPN	M8 (8 mm) connector	Diagram 1	Figure 2
<b>CR8-AP-2F</b>	\$36.50	0-2 mm (0-0.08 in)	Flush	NO	PNP	M8 (8 mm) connector	Diagram 2	Figure 2
<b>Triple Distance</b>								
<b>CR8-AN-3A</b>	\$82.00	3mm (0.118 in)	Semi-flush	NO	NPN	2 m (6.5') axial cable	Diagram 1	Figure 1
<b>CR8-AP-3A</b>	\$82.00	3mm (0.118 in)	Semi-flush	NO	PNP	2 m (6.5') axial cable	Diagram 2	Figure 1
<b>CR8-AN-3F</b>	\$82.00	3mm (0.118 in)	Semi-flush	NO	NPN	M8 (8 mm) connector	Diagram 1	Figure 2
<b>CR8-AP-3F</b>	\$82.00	3mm (0.118 in)	Semi-flush	NO	PNP	M8 (8 mm) connector	Diagram 2	Figure 2

## Wiring diagrams

**Diagram 1**

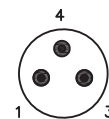


**Diagram 2**



**Connector**

**M8 connector**



# CR8 Series Inductive Proximity Sensors

Specifications	Standard Distance Models	Extended Distance Models	Triple Distance Models
<b>Mounting Type</b>	Flush	Flush	Semi-flush
<b>Nominal Distance</b>	1.5 mm (0.06 in)	2 mm (0.08 in)	3 mm (0.118 in)
<b>Operating Distance</b>	NA	NA	NA
<b>Material Correction Factors</b>	See the <a href="#">Material influence table</a>		
<b>Output Type</b>	NPN or PNP/NO only/3-wire		
<b>Operating Voltage</b>	10 to 30 VDC		
<b>No-load Supply Current</b>	≤10 mA		
<b>Operating (Load) Current</b>	≤200 mA		
<b>Off-state (Leakage) Current</b>	≤10µA		
<b>Voltage Drop</b>	≤2.0 V		
<b>Switching Frequency</b>	1 kHz		
<b>Differential Travel (% of Nominal Distance)</b>	≤10%		
<b>Repeat Accuracy</b>	≤5%		
<b>Ripple</b>	≤20%		
<b>Time Delay Before Availability (tv)</b>	10 ms		50 ms
<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 +70°C (-13° to 158°F)		
<b>Protection Degree (DIN 40050)</b>	IEC IP67		
<b>Indication/Switch Status</b>	Yellow (output energized)		
<b>Housing Material</b>	Nickel-plated brass		Chrome-plated brass
<b>Sensing Face Material</b>	Polybutylene Terephthalate (PBT)		
<b>Shock/Vibration</b>	See <a href="#">Proximity Sensor Terminology</a>		
<b>Tightening Torque</b>	4 Nm (2.95 lb-ft)		
<b>Weight (cable/M8 connector)</b>	43 g (1.52 oz)/15 g (0.53 oz)		54 g (1.90 oz)/21 g (0.74 oz)
<b>Connection</b>	2 m (6.5') axial cable or M8 (8 mm) connector		
<b>Agency Approvals</b>	UL file E328811, CE		

## Dimensions

mm [inches]

