CR8 Series Inductive Proximity Sensors



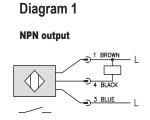
8 x 8 mm Rectangular Metal – DC

- 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 Proximity Selection Chart									
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions	
Standard Distance									
CR8-AN-1A	\$32.50	0-1.5 mm [0-0.06 in]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1	
CR8-AP-1A	\$32.50				PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1	
CR8-AN-1F	\$32.50				NPN	M8 [8mm] connector	Diagram 1	Figure 2	
CR8-AP-1F	\$32.50				PNP	M8 [8mm] connector	Diagram 2	Figure 2	
Extended Distance									
CR8-AN-2A	\$45.00	0-2 mm [0-0.08 in]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1	
<u>CR8-AP-2A</u>	\$45.00				PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1	
CR8-AN-2F	\$45.00				NPN	M8 [8mm] connector	Diagram 1	Figure 2	
CR8-AP-2F	\$45.00				PNP	M8 [8mm] connector	Diagram 2	Figure 2	
Triple Distance									
<u>CR8-AN-3A</u>	\$102.00	3mm [0.118 in]	Semi-flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1	
<u>CR8-AP-3A</u>	\$102.00				PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1	
CR8-AN-3F	\$102.00				NPN	M8 [8mm] connector	Diagram 1	Figure 2	
CR8-AP-3F	\$102.00				PNP	M8 [8mm] connector	Diagram 2	Figure 2	

Wiring Diagrams



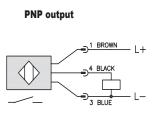


Diagram 2

Connector

M8 connector

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CR8 Series 8x8 Rectangular DC Inductive Proximity Specifications								
Models	Standard Distance	Extended Distance	Triple Distance					
Mounting Type	Flush	Flush	Semi-flush					
Nominal Distance	1.5 mm [0.06 in]	2 mm [0.08 in]	3 mm [0.118 in]					
Operating Distance	NA	NA	NA					
Material Correction Factors	See the Material influence table							
Output Type	NPN or PNP/N.O. only/3-wire							
Operating Voltage	10 to 30 VDC							
No-load Supply Current	≤10 mA							
Operating (Load) Current	≤ 200 mA							
Off-state (Leakage) Current	≤ 10µA							
Voltage Drop	≤ 2.0 V							
Switching Frequency	1kHz							
Differential Travel (% of Nominal Distance)	≤10%							
Repeat Accuracy	≤ 5%							
Ripple	m 20%							
Time Delay Before Availability (tv)	1	50ms						
Reverse Polarity Protection	Yes							
Short-Circuit Protection	Yes (switch auto-resets after overload is removed)							
Operating Temperature	-25 to +70°C [-13 to 158°F]							
Protection Degree (DIN 40050)	IEC IP67							
Indication/Switch Status	Yellow (output energized)							
Housing Material	Nickel-p	Chrome-plated brass						
Sensing Face Material	Polybutylene Terephthalate (PBT)							
Shock/Vibration	See Proximity Sensor Terminology							
Tightening Torque	4 Nm [2.95 lb-ft]							
Weight (cable/M8 connector)	43g [1.52 oz	54g [1.90 oz]/21g [0.74 oz]						
Connection	2m [6.5 ft] axial cable or M8 [8mm] connector							
Agency Approvals	UL file E328811, CE							

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

Dimensions

