CR8 Series Inductive Proximity Sensors

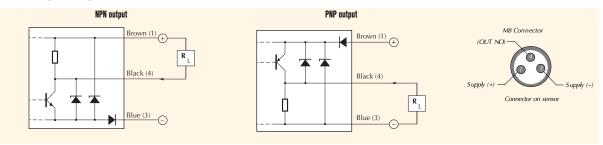


8 x 8 mm rectangular metal - DC

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

		CR8 Series 8x8	Rectangular	DC Inductive Pro	x Selection Ch	art	
Part Number		Sensing Range	Housing	Output State	Logic	Connection	Dimensions
Standard Distance							
CR8-AN-1A	<>		Shielded		NPN	2m (6.5') axial cable	Figure 1
CR8-AP-1A	<>	0 to 1.5mm		N.O.	PNP	2m (6.5') axial cable	Figure 1
CR8-AN-1F	<>	(0 to 0.059in)		N.U.	NPN	M8 (8mm) connector	Figure 2
CR8-AP-1F	<>				PNP	M8 (8mm) connector	Figure 2
Extended Distance	<u> </u>						
CR8-AN-2A	<>	0 to 2.0mm (0 to 0.079in)	Shielded	N.O.	NPN	2m (6.5') axial cable	Figure 1
CR8-AP-2A	<>				PNP	2m (6.5') axial cable	Figure 1
CR8-AN-2F	<>				NPN	M8 (8mm) connector	Figure 2
CR8-AP-2F	<>				PNP	M8 (8mm) connector	Figure 2
Triple Distance							
CR8-AN-3A	<>		Shielded	N.O.	NPN	2m (6.5') axial cable	Figure 1
CR8-AP-3A	<>	3mm (0.118in)			PNP	2m (6.5') axial cable	Figure 1
CR8-AN-3F	<>				NPN	M8 (8mm) connector	Figure 2
CR8-AP-3F	<>				PNP	M8 (8mm) connector	Figure 2

Wiring diagrams



Cables and Accessories

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

17-34 Sensors 0 1 7 3 7 - 8 2 4 6 0 0

CR8 Series Inductive Proximity Sensors

Specifications	Standard Distance Models	Extended Distance Models	Triple Distance Models			
Туре	Shielded	Shielded	Shielded			
Operating Distance	1.5mm (0.059in)	2mm (0.079in)	3mm (0.118in)			
Material Correction Factors	*See Material Ir	*See Material Influence table #2				
Differential Travel	≤10%					
Repeat Accuracy	≤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/3 wire					
Switching Frequency	1kHz					
(tv) Time Delay Before Availability	10	50ms				
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-pl	Chrome-plated brass				
Sensing Face Material	PBT					
Tightening Torque	4Nm (35lb./in.)					
Weight (cable/M8 connector)	43g (1.52oz)	/15g (0.53oz)	54g (1.90oz)/21g (0.74oz)			

^{*}See Material Influence tables #1 and #2 on page 17-53

Dimensions

Figure 1

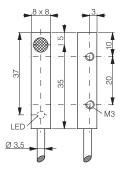
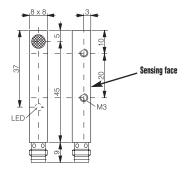


Figure 2





PLC Overview

DL05/06 PLC

DL105 PLC

DL205 PLC

DL305 PLC

DL405 PLC

Field I/O

Software

C-more HMIs

Other HMI

AC Drives

Motors

Steppers/ Servos

Motor Controls

Proximity Sensors

Photo Sensors

Limit Switches

Encoders

Pushbuttons/ Lights

Process

Relays/ Timers

Comm.

TB's & Wiring

Power

Enclosures

Appendix

Part Index