## CR5 Series Inductive Proximity Sensors



No-load Supply Current

Switching Frequency

Repeat Accuracy

Voltage Drop

Ripple

**Operating (Load) Current** 

Off-state (Leakage) Current

Differential Travel (% of Nominal Distance)

Time Delay Before Availability (tv)

Reverse Polarity Protection

Protection Degree (DIN 40050)

Short Circuit Protection

**Operating Temperature** 

Indication/Switch Status

Sensing Face Material

Housing Material

Shock/Vibration

Weight

Connection

Wiring

**Tightening Torque** 

Agency Approvals

Diagrams

## 5 x 5 mm Rectangular Metal - DC

- Compact 5 x 5 x 25 mm metal housing
- Axial cable or M8 quick-disconnect models; purchase cable separately

· Complete overload protection

- IP67 ratedScrews included
- Lifetime warranty



CR5 Series 5x5 Rectangular DC Inductive Prox Selection Chart									
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions	
Standard Distance									
<u>CR5-AN-1A</u>	\$-09ln:	0.8 mm [0.03 in]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1	
<u>CR5-AP-1A</u>	\$-09ls:				PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1	
<u>CR5-AN-1F</u>	\$-09lo:				NPN	M8 [8mm] connector	Diagram 1	Figure 2	
CR5-AP-1F	\$;-09lt:				PNP	M8 [8mm] connector	Diagram 2	Figure 2	
Extended Distance									
<u>CR5-AN-2A</u>	\$-09lp:	1.5 mm [0.06 in]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1	
<u>CR5-AP-2A</u>	\$-09lu:				PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1	
<u>CR5-AN-2F</u>	\$-09lq:				NPN	M8 [8mm] connector	Diagram 1	Figure 2	
<u>CR5-AP-2F</u>	\$-09lv:				PNP	M8 [8mm] connector	Diagram 2	Figure 2	
Specifications						Standard	Extended		
						Distance	Distance		
Mounting Type						Flush		Flush	
Nominal Distance						0.8 mm (0.03 in)		1.5 mm (0.06 in)	
Operating Distance						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			

## Dimensions

mm [inches]

Figure 1

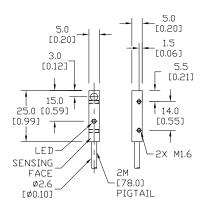


Figure 2

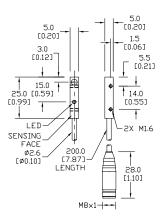
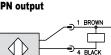
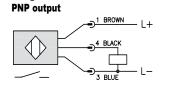


Diagram 1 NPN output



3 BLUE



 $\leq 10 \text{ mA}$ 

≤ 200 mA

≤ 10µA

≤ 2.0 V

≤ 10%

≤ 1.5%

≤ 20%

10ms

Yes

Yes (switch auto-resets after overload is removed)

-25 to +70°C [-13 to 158°F]

IEC IP67

Yellow (output energized)

Nickel-plated brass

Polyester

See Proximity Sensor Terminology

1.5 Nm (1.1 lb-in)

2m [6.5 ft] axial cable or M8 (8mm) connector UL file E328811

Diagram 2

3kHz

27g [0.95 oz]

5kHz

26g [0.92 oz)

Connector M8 connector



**Proximity Sensors** 

tSEN-363

www.automationdirect.com