1-800-633-0405 For the latest prices, please check Aut 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 | | | | | | | | |
| <u>CR8-AN-1A</u> | \$32.50 | - 0-1.5 mm [0-0.06 in] - | Flush | N.O. | NPN | 2m [6.5 ft] axial cable | Diagram 1 | Figure 1 |
| <u>CR8-AP-1A</u> | \$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 |
| <u>CR8-AP-1F</u> | \$32.50 | | | | PNP | M8 [8mm] connector | Diagram 2 | Figure 2 |
| Extended Distance | | | | | | | | |
| <u>CR8-AN-2A</u> | \$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 | | | | | | | | |
| CR8-AN-3A | \$102.00 | - 3mm [0.118 in] | Semi-flush | N.O | NPN | 2m [6.5 ft] axial cable | Diagram 1 | Figure 1 |
| CR8-AP-3A | \$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 1

NPN output

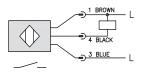
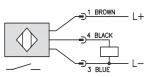


Diagram 2

PNP output



Connector

M8 connector



1-800-633-0405 For the latest prices, please check Aut CR8 Series Inductive Proximity Sensors

| 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) | 10 | 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-pl | 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

mm [inches]

