

WKM Series Factor 1 Weld-Field Immune Inductive Proximity Sensors



M12 (12mm)

- Correction Factor (K-Factor) = 1
- Low cost/high performance
- Weld slag resistant coating
- Inductive sensor
- Metal thread M12 x 1 Connector
- Increased sensing range
- Gold-plated contacts
- Electromagnetic field immune
- Flush and Non-flush mounting
- Lifetime warranty

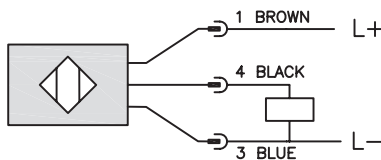


WKM Series M12 Inductive Proximity Selection Chart

| Part Number | Price | Sensing Range | Mounting | Output State | Logic | Voltage | Connection | Wiring | Dimensions |
|------------------|---------|---------------|-----------|--------------|-------|-------------|----------------------------|-----------|------------|
| WKM-AP-3H | \$32.00 | 4mm [0.16 in] | Flush | N.O. | PNP | 10 - 30 VDC | 4-pin M12 quick-disconnect | Diagram 1 | Figure 1 |
| WKM-AP-4H | \$42.50 | 8mm [0.31 in] | Non-flush | | | | | | |

Wiring Diagrams

Diagram 1



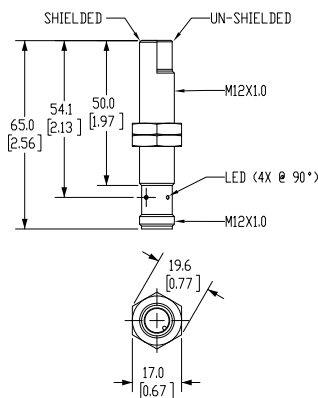
Connector



Dimensions

mm [inches]

Figure 1



WKM Series Factor 1 Weld-Field Immune Inductive Proximity Sensors

| WKM Series M12 Inductive Proximity Specifications | | |
|--|--|----------------------------|
| Model | <u>WKM-AP-3H</u> | <u>WKM-AP-4H</u> |
| Mounting Type | Flush | Non-flush |
| Nominal Sensing Distance | 4mm [0.16 in] | 8mm [0.31 in] |
| Operating Distance | 0 - 3.24 mm | 0 - 6.5 mm |
| Material Correction Factors | Correction Factor (K-Factor) = 1 | |
| Output Type | N.O. | |
| Operating Voltage | 10 to 30 VDC | |
| No-load Supply Current | < 20mA | |
| Operating (Load) Current | 100mA | |
| Off-state Leakage Current | NA | |
| Voltage Drop | 2.5 V | |
| Switching Frequency | 2000Hz | |
| Differential Travel (% of Nominal Distance) | 3 - 15 | |
| Repeat Accuracy | NA | |
| Ripple | NA | |
| Time Delay Before Availability (tv) | NA | |
| Short Circuit Protection | Yes | |
| Operating Temperature | -40 to 85°C [-40 to 185°F] | -25 to 70°C [-13 to 158°F] |
| Protection Degree (DIN 40050) | IP65 / IP66 / IP67 / IP68 / IP69K | IP67 |
| LED Indicators | Illuminated when energized | |
| Housing Material | Brass with anti-spatter ceramic (Polytetrafluoroethylene [PTFE]) coating; LED window: Polyetherimide [PEI] | |
| Sensing Face Material | active face: Liquid Crystal Polymer [LCP] white | |
| Shock/Vibration | See Proximity Sensor Terminology | |
| Weight | 0.029 kg | 0.036 kg |
| Connection | 4-pin M12 quick-disconnect | |
| Agency Approvals | cULus E328811, CE | |

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