

KSE Series Factor 1 Inductive Proximity Sensors

M8 (8mm)



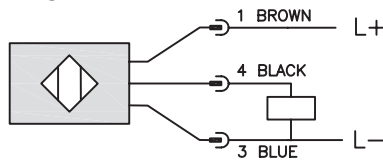
- Correction Factor (K-Factor) = 1
- Low cost/high performance
- 40mm housing length
- Inductive sensor
- Metal thread M8 x 1 Connector
- Increased sensing range
- Gold-plated contacts
- Electromagnetic field immune
- Flush and Non-flush mounting
- Lifetime warranty



| KSE Series M8 Inductive Proximity Selection Chart | | | | | | | | | |
|---|---------|---------------|-----------|--------------|-------|-----------|---------------------------|-----------|------------|
| Part Number | Price | Sensing Range | Mounting | Output State | Logic | Voltage | Connection | Wiring | Dimensions |
| KSE-AP-3F | \$28.50 | 3mm [0.11 in] | Flush | N.O. | PNP | 10-30 VDC | 3-pin M8 quick-disconnect | Diagram 1 | Figure 1 |
| KSE-AP-4F | \$28.50 | 6mm [0.24 in] | Non-flush | | | | | | |

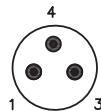
Wiring Diagrams

Diagram 1



Connector

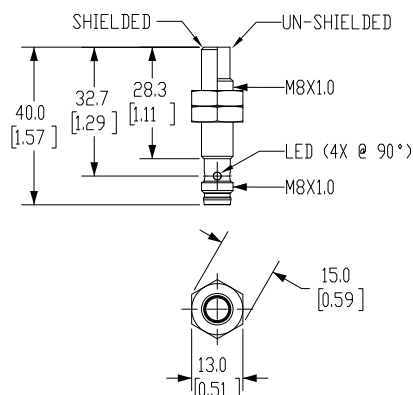
M8 connector



Dimensions

mm [inches]

Figure 1



KSE Series Factor 1 Inductive Proximity Sensors

| KSE Series M8 Inductive Proximity Specifications | | |
|--|--|------------------|
| Model | <i>KSE-AP-3F</i> | <i>KSE-AP-4F</i> |
| Mounting Type | Flush | Non-flush |
| Nominal Sensing Distance | 3mm [0.12 in] | 6mm [0.24 in] |
| Operating Distance | 0 - 2.43 mm | 0 - 4.86 mm |
| Material Correction Factors | Correction Factor (K-Factor) = 1 | |
| Output Type | N.O. | |
| Operating Voltage | 10 to 30 VDC | |
| No-load Supply Current | < 20 mA | |
| Operating (Load) Current | 100 mA | |
| 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] | |
| Protection Degree (DIN 40050) | IP65 / IP66 / IP67 / IP68 / IP69K | |
| LED Indicators | Illuminated when energized | |
| Housing Material | Stainless steel [316L]; LED window: Polyetherimide [PEI] | |
| Sensing Face Material | Active face: Liquid Crystal Polymer [LCP] white | |
| Shock/Vibration | See Proximity Sensor Terminology | |
| Weight | 0.017 kg | |
| Connection | 3-pin M8 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.