

WSE Series Weld Slag Resistant Inductive Proximity Sensors



M8 (8mm)

- Low cost/high performance
- Weld slag resistant coating
- Inductive sensor
- Full metal housing
- Increased sensing range
- Gold-plated contacts
- Flush mounting
- Lifetime warranty



| WSE Series M8 Inductive Proximity Selection Chart | | | | | | | | | |
|---|---------|---------------|----------|--------------|-------|-------------|----------------------------|-----------|------------|
| Part Number | Price | Sensing Range | Mounting | Output State | Logic | Voltage | Connection | Wiring | Dimensions |
| WSE-AP-3H | \$52.00 | 2mm [0.08 in] | Flush | N.O. | PNP | 10 - 36 VDC | 4-pin M12 quick-disconnect | Diagram 1 | Figure 1 |
| WSE-AN-3H | \$57.00 | | | | | | | Diagram 2 | Figure 1 |
| WSE-A0-3E | \$57.00 | | | | | | 4-pin M12 with 0.3 m cable | Diagram 3 | Figure 2 |
| WSE-A0-3A | \$55.00 | | | | | | 3m axial cable | Diagram 4 | |

Wiring Diagrams

Diagram 1

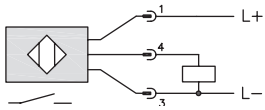


Diagram 2

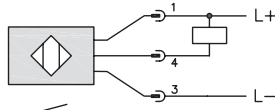


Diagram 3

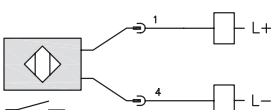
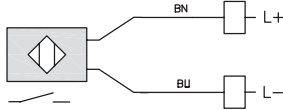


Diagram 4



Connector

4-pin M12



4-pin M12 0.3m



Dimensions

mm [inches]

Figure 1

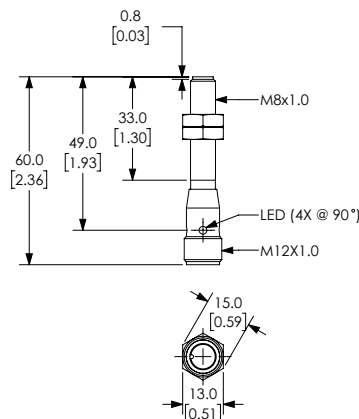
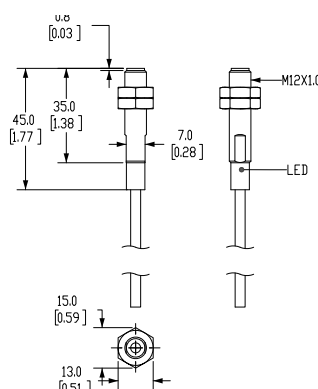


Figure 2



WSE Series Weld Slag Resistant Inductive Proximity Sensors

| WSE Series M8 Inductive Proximity Specifications | | | | |
|--|--|-----------|--|---------------------------------------|
| Model | WSE-AP-3H | WSE-AN-3H | WSE-A0-3E | WSE-A0-3A |
| Mounting Type | Flush | | | |
| Nominal Sensing Distance | 2mm [0.08 in] | | | |
| Operating Distance | 0 - 1.6 mm | | | |
| Material Correction Factors | See the Material Influence table | | | |
| Output Type | N.O. | | | |
| Operating Voltage | 10 to 36 VDC | | | |
| No-load Supply Current | < 20 mA | | | NA |
| Operating (Load) Current | | | 100mA | |
| Off-state Leakage Current | NA | | | < 0.75 mA |
| Voltage Drop | | | < 2.5 V | |
| Switching Frequency | 100Hz | | | 150Hz |
| Differential Travel (% of Nominal Distance) | 1-15 | | | 1-20 |
| Repeat Accuracy | | | | NA |
| Ripple | | | | NA |
| Time Delay Before Availability (tv) | | | | NA |
| Short Circuit Protection | | | | Yes |
| Operating Temperature | 0 to 85°C [32 to 185°F] | | -25 to 70°C [-13 to 158°F] | |
| Protection Degree (DIN 40050) | IP67 / IP68 | | IP67 | |
| LED Indicators | Illuminated when energized | | | |
| Housing Material | Stainless steel 316L / 1.4404 with anti-spatter ceramic (Polytetrafluoroethylene [PTFE]) coating | | | |
| Sensing Face Material | active face: stainless steel 316L 1.4404 anti-spatter | | | |
| Shock/Vibration | See Proximity Sensor Terminology | | | |
| Weight | 0.021 kg | 0.021 kg | 0.035 kg | 0.070 kg |
| Connection | 4-pin M12 quick-disconnect | | PUR cable / 0.3m; 2x0.5 mm ² ; with 4-pin M12 quick- disconnect | PUR cable / 3m; 2x0.5 mm ² |
| 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.