

WST Series Weld-Field Immune Inductive Proximity Sensors

M30 (30mm)



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



| WST Series M30 Inductive Prox Selection Chart | | | | | | | | | |
|---|---------|----------------|----------|--------------|----------------|-------------|----------------------------|-----------|------------|
| Part Number | Price | Sensing Range | Housing | Output State | Logic | Voltage | Connection | Wiring | Dimensions |
| WST-AP-3H | \$37.00 | 15mm (0.59 mm) | Shielded | NO | PNP | 10 - 30 VDC | 4-pin M12 quick disconnect | Diagram 1 | Figure 1 |
| WST-AN-3H | \$52.00 | 12mm (0.47 mm) | | | NPN | 10 - 36 VDC | 4-pin M12 quick disconnect | Diagram 2 | Figure 2 |
| WST-A0-3E | \$52.00 | | | | PNP/NPN | | 4-pin M12 with 0.3 m cable | Diagram 3 | Figure 3 |
| WST-A0-3A | \$52.00 | | | | 3m axial cable | | Diagram 4 | | |

Wiring Diagrams

Diagram 1

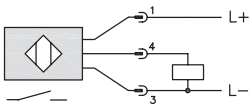


Diagram 2

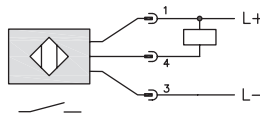


Diagram 3

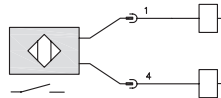
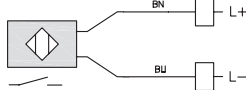


Diagram 4



Connector

4-pin M12 NPN



4-pin M12 PNP



4-pin M12 0.3m



Dimensions

mm [inches]

Figure 1

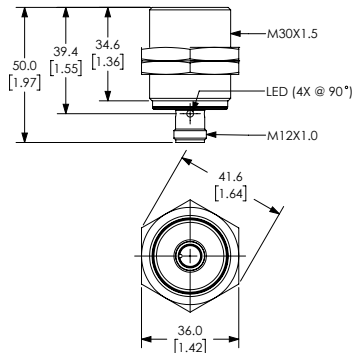


Figure 2

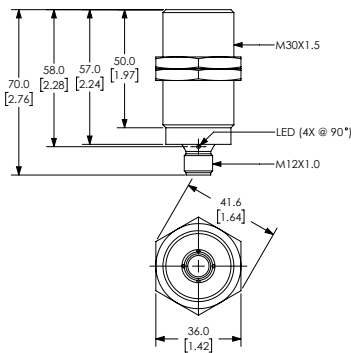
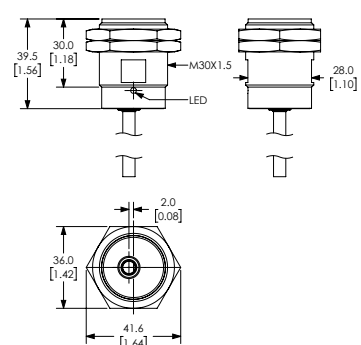


Figure 3



WST Series Weld-Field Immune Inductive Proximity Sensors

| Specifications | M30 | | | |
|--|--|-----------------------|--|--|
| Models | WST-AP-3H | WST-AN-3H | WST-A0-3E | WST-A0-3A |
| Mounting Type | Shielded | | | |
| Nominal Sensing Distance (mm) | 15mm (0.59 in) | 12mm (0.47 in) | | |
| Operating Distance | 0 - 12.15 mm | 0 - 9.7 mm | | |
| Material Correction Factors | See the Material Influence table | | | |
| Output Type | NO | | | |
| Operating Voltage | 10 to 30 VDC | 10 to 36 VDC | | |
| No-load Supply Current | < 10 mA | < 20 mA | NA | |
| Operating (Load) Current | < 100 mA | | | |
| Off-state Leakage Current | NA | | < 0.6 mA | |
| Voltage Drop | < 2.5 V | | | |
| Switching Frequency | 2Hz | | 25Hz | |
| Differential Travel (% of Nominal Distance) | 3 - 15 | 1 - 20 | | |
| Repeat Accuracy | NA | | | |
| Ripple | NA | | | |
| Time Delay Before Availability (tv) | NA | | | |
| Short Circuit Protection | Yes | | | |
| Operating Temperature | -40 — 85°C [-40 — 185°F] | 0 - 85°C [32 — 185°F] | -25 - 70°C [-13 — 158°F] | |
| Protection Degree (DIN 40 050) | IP65 / IP66 / IP67 / IP68 / IP69K | | 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 | 0.115 kg | 0.139 kg | 0.135 kg | 0.227 kg |
| Connection | 4-pin M12 quick disconnect | | PUR cable / 0.3 m; 2 x 0.5 mm ² ; with 4-pin M12 quick disconnect | PUR cable / 3 m; 2 x 0.5 mm ² |
| Agency Approvals | cULus E328811, CE | | | |