

# 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                                     | \$37.50 | 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

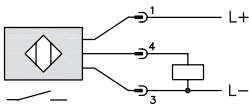


Diagram 2

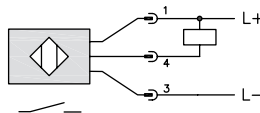


Diagram 3

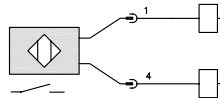
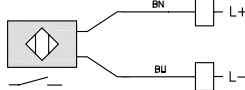


Diagram 4



### Connector

4-pin M12 NPN



4-pin M12 PNP



4-pin M12 0.3m



### Dimensions

mm [inches]

Figure 1

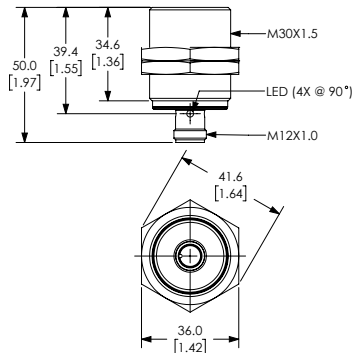


Figure 2

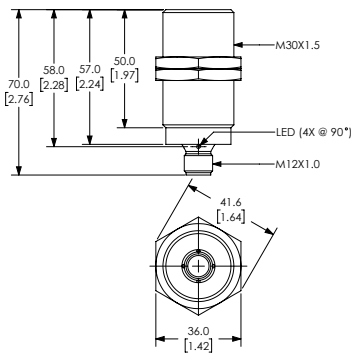
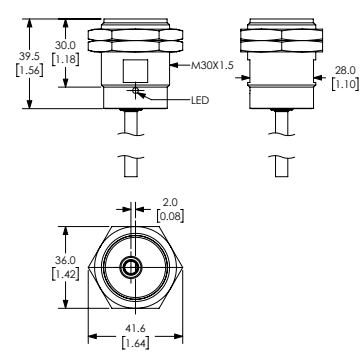


Figure 3



# WST Series Weld-Field Immune Inductive Proximity Sensors

| Specifications                                     | M30  |                       |  |  |
|--|--|-----------------------|--|--|
| <b>Models</b>                                      | WST-AP-3H  | WST-AN-3H             | WST-A0-3E  | WST-A0-3A                                |
| <b>Mounting Type</b>                               | Shielded   |                       |  |  |
| <b>Nominal Sensing Distance (mm)</b>               | 15mm (0.59 in)   | 12mm (0.47 in)        |  |  |
| <b>Operating Distance</b>                          | 0 - 12.15 mm   | 0 - 9.7 mm            |  |  |
| <b>Material Correction Factors</b>                 | See the <a href="#">Material Influence table</a>   |                       |  |  |
| <b>Output Type</b>                                 | NO   |                       |  |  |
| <b>Operating Voltage</b>                           | 10 to 30 VDC   | 10 to 36 VDC          |  |  |
| <b>No-load Supply Current</b>                      | < 10 mA  | < 20 mA               | NA   |  |
| <b>Operating (Load) Current</b>                    | < 100 mA   |                       |  |  |
| <b>Off-state Leakage Current</b>                   | NA   |                       | < 0.6 mA   |  |
| <b>Voltage Drop</b>                                | < 2.5 V  |                       |  |  |
| <b>Switching Frequency</b>                         | 2Hz  |                       | 25Hz   |  |
| <b>Differential Travel (% of Nominal Distance)</b> | 3 - 15   | 1 - 20                |  |  |
| <b>Repeat Accuracy</b>                             | NA   |                       |  |  |
| <b>Ripple</b>                                      | NA   |                       |  |  |
| <b>Time Delay Before Availability (tv)</b>         | NA   |                       |  |  |
| <b>Short Circuit Protection</b>                    | Yes  |                       |  |  |
| <b>Operating Temperature</b>                       | -40 — 85°C [-40 — 185°F]   | 0 - 85°C [32 — 185°F] | -25 - 70°C [-13 — 158°F]   |  |
| <b>Protection Degree (DIN 40 050)</b>              | IP65 / IP66 / IP67 / IP68 / IP69K  |                       | IP67   |  |
| <b>LED Indicators</b>                              | Illuminated when energized   |                       |  |  |
| <b>Housing Material</b>                            | Stainless steel 316L / 1.4404 with anti-spatter ceramic (Polytetrafluoroethylene [PTFE]) coating |                       |  |  |
| <b>Sensing Face Material</b>                       | active face: stainless steel 316L<br>1.4404 anti-spatter   |                       |  |  |
| <b>Shock/Vibration</b>                             | See <a href="#">Proximity Sensor Terminology</a>   |                       |  |  |
| <b>Weight</b>                                      | 0.115 kg   | 0.139 kg              | 0.135 kg   | 0.227 kg                                 |
| <b>Connection</b>                                  | 4-pin M12 quick disconnect   |                       | PUR cable / 0.3 m; 2 x 0.5 mm <sup>2</sup> ; with 4-pin M12 quick disconnect | PUR cable / 3 m; 2 x 0.5 mm <sup>2</sup> |
| <b>Agency Approvals</b>                            | cULus E328811, CE  |                       |  |  |