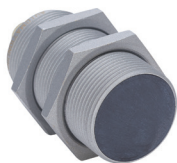


# WKT Series Factor 1 Weld-Field Immune Inductive Proximity Sensors

## M30 (30mm)



- 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 mounting
- Lifetime warranty

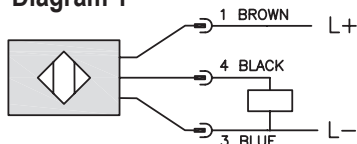


### WKT Series M30 Inductive Proximity Selection Chart

| Part Number      | Price   | Sensing Range   | Mounting | Output State | Logic | Voltage     | Connection                 | Wiring    | Dimensions |
|------------------|---------|-----------------|----------|--------------|-------|-------------|----------------------------|-----------|------------|
| <b>WKT-AP-3H</b> | \$45.00 | 15 mm [0.59 mm] | Flush    | N.O.         | PNP   | 10 - 30 VDC | 4-pin M12 quick-disconnect | Diagram 1 | Figure 1   |

## Wiring Diagrams

Diagram 1



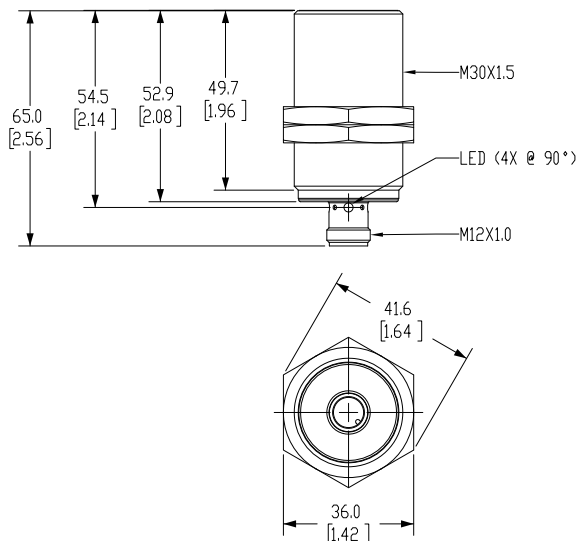
Connector



## Dimensions

mm [inches]

Figure 1



# WKT Series Factor 1 Weld-Field Immune Inductive Proximity Sensors

| WKT Series M30 Inductive Proximity Specifications      |                                                                                                            |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Model</b>                                           | <b><u>WKT-AP-3H</u></b>                                                                                    |
| <b>Mounting Type</b>                                   | Flush                                                                                                      |
| <b>Nominal Sensing Distance</b>                        | 15mm [0.59 in]                                                                                             |
| <b>Operating Distance</b>                              | 0-12.15 mm [0-0.49 in]                                                                                     |
| <b>Material Correction Factors</b>                     | Correction Factor (K-Factor) = 1                                                                           |
| <b>Output Type</b>                                     | N.O.                                                                                                       |
| <b>Operating Voltage</b>                               | 10 to 30 VDC                                                                                               |
| <b>No-load Supply Current</b>                          | < 20mA                                                                                                     |
| <b>Operating (Load) Current</b>                        | 100mA                                                                                                      |
| <b>Off-state Leakage Current</b>                       | NA                                                                                                         |
| <b>Voltage Drop</b>                                    | < 2.5 V                                                                                                    |
| <b>Switching Frequency</b>                             | 2000Hz                                                                                                     |
| <b>Differential Travel<br/>(% of Nominal Distance)</b> | 3 - 15                                                                                                     |
| <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 to 85 °C [-40 to 185 °F]                                                                               |
| <b>Protection Degree (DIN 40050)</b>                   | IP65 / IP66 / IP67 / IP68 / IP69K                                                                          |
| <b>LED Indicators</b>                                  | Illuminated when energized                                                                                 |
| <b>Housing Material</b>                                | Brass with anti-spatter ceramic (Polytetrafluoroethylene [PTFE]) coating; LED window: Polyetherimide [PEI] |
| <b>Sensing Face Material</b>                           | active face: Liquid Crystal Polymer [LCP] black                                                            |
| <b>Shock/Vibration</b>                                 | See <a href="#">Proximity Sensor Terminology</a>                                                           |
| <b>Weight</b>                                          | 0.112 kg [0.247 lb]                                                                                        |
| <b>Connection</b>                                      | 4-pin M12 quick-disconnect                                                                                 |
| <b>Agency Approvals</b>                                | 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.