

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



## M8 (8mm)

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

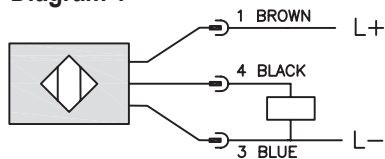


## WKE Series M8 Inductive Proximity Selection Chart

| Part Number      | Price   | Sensing Range | Mounting  | Output State | Logic | Voltage     | Connection                | Wiring    | Dimensions |
|------------------|---------|---------------|-----------|--------------|-------|-------------|---------------------------|-----------|------------|
| <b>WKE-AP-3F</b> | \$32.00 | 3mm [0.12 in] | Flush     | N.O.         | PNP   | 10 - 30 VDC | 3-pin M8 quick-disconnect | Diagram 1 | Figure 1   |
| <b>WKE-AP-4F</b> | \$32.00 | 6mm [0.24 in] | Non-flush |              |       |             |                           |           |            |

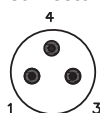
## Wiring Diagrams

Diagram 1



Connector

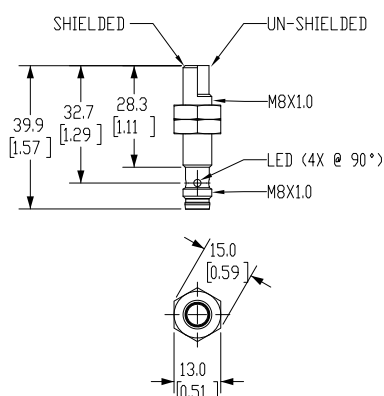
3-pin M8 connector



## Dimensions

mm [inches]

Figure 1



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

| WKE Series M8 Inductive Proximity Specifications |  |                  |
|--|--|------------------|
| Models   | <u>WKE-AP-3F</u>   | <u>WKE-AP-4F</u> |
| 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                           | < 20mA   |                  |
| Operating (Load) Current                         | 100mA  |                  |
| Off-state Leakage Current                        | NA   |                  |
| Voltage Drop                                     | < 2.5 V  |                  |
| Switching Frequency                              | 2000Hz   |                  |
| Differential Travel<br>(% 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 with anti-spatter ceramic (Polytetrafluoroethylene [PTFE]) coating; LED window: Polyetherimide [PEI] |                  |
| Sensing Face Material                            | active face: Liquid Crystal Polymer [LCP] black  |                  |
| Shock/Vibration                                  | See <a href="#">Proximity Sensor Terminology</a>   |                  |
| Weight   | 0.017 kg   | 0.016 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.