



# DW Series 3mm Inductive Proximity Sensors

## Miniature Ø3 (3mm) – DC



- Complete overload protection
- IP67 rated
- Stainless steel construction
- LED status indicator
- Lifetime warranty



### DW Series Ø3 (3mm) DC Inductive Proximity Selection Chart

| Part Number                       | Price   | Size                  | Sensing Range     | Mounting | Output State | Logic | Connection                 | Wiring    | Drawing Link        |
|-----------------------------------|---------|-----------------------|-------------------|----------|--------------|-------|----------------------------|-----------|---------------------|
| <b>Extended Distance</b>          |         |                       |                   |          |              |       |                            |           |                     |
| <a href="#">DW-AD-621-03-960</a>  | \$84.00 | Ø3<br>(Smooth barrel) | 1mm<br>[0.039 in] | Flush    | N.O.         | NPN   | 2m [6.5 ft]<br>axial cable | Diagram 1 | <a href="#">PDF</a> |
| <a href="#">DW-AD-623-03-960*</a> | \$84.00 |                       |                   |          |              | PNP   |                            | Diagram 2 | <a href="#">PDF</a> |
| <a href="#">DW-AD-622-03</a>      | \$84.00 |                       |                   |          | N.C.         | NPN   |                            | Diagram 1 | <a href="#">PDF</a> |
| <a href="#">DW-AD-624-03</a>      | \$84.00 |                       |                   |          |              | PNP   |                            | Diagram 2 | <a href="#">PDF</a> |

\*IO-Link model

## Wiring Diagrams

Diagram 1

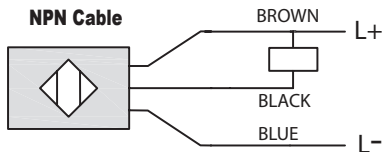
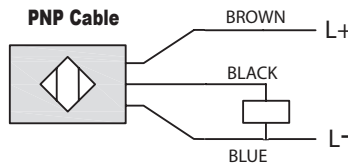


Diagram 2



# DW Series 3mm Inductive Proximity Sensors

| DW Series Ø3 (3mm) DC Inductive Proximity Specifications |                                                  |              |
|----------------------------------------------------------|--------------------------------------------------|--------------|
| Specification                                            | DW-Ax-62x-03-96x                                 | DW-Ax-62x-03 |
| Mounting Type                                            | Flush                                            |              |
| Nominal Sensing Distance                                 | 1mm [0.039 in]                                   |              |
| Operating Distance                                       | —                                                |              |
| Material Correction Factors                              | See the <a href="#">Material influence table</a> |              |
| Output Type                                              | NPN or PNP, N.O. or N.C.                         |              |
| Operating Voltage                                        | 10 to 30 VDC                                     |              |
| No-load Supply Current                                   | ≤ 10mA                                           |              |
| Operating (Load) Current                                 | ≤ 100mA                                          |              |
| Off-state (Leakage) Current                              | ≤ 0.1 mA                                         |              |
| Voltage Drop                                             | ≤ 2 V                                            |              |
| Switching Frequency                                      | ≤ 8kHz                                           | ≤ 3kHz       |
| Differential Travel (% of Nominal Distance)              | ≤ 10%                                            |              |
| Repeat Accuracy                                          | 0.02 mm                                          |              |
| Ripple                                                   | ≤ 20%                                            |              |
| Time Delay Before Availability (tv)                      | ≤ 10ms                                           |              |
| Reverse Polarity Protection                              | Yes                                              |              |
| Short-Circuit Protection                                 | Yes                                              |              |
| Operating Temperature                                    | -25 to 70°C [-13 to 158°F]                       |              |
| Protection Degree (DIN 40050)                            | IP67                                             |              |
| Indication/Switch Status                                 | Yellow LED                                       |              |
| Housing Material                                         | Stainless steel                                  |              |
| Sensing Face Material                                    | POM [polyoxymethylene]                           |              |
| Shock/Vibration                                          | IEC 60947-5-2/7.4                                |              |
| Tightening Torque                                        | —                                                |              |
| Weight                                                   | 18g [0.625 oz]                                   |              |
| Connection                                               | 2m [6.5 ft] cable                                |              |
| IO-Link                                                  | PNP N.O. Version Only                            |              |
| Agency Approvals                                         | cULus E239373                                    |              |

Note: To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

# Accessories for 3mm Sensors

## Right-angle Mounting Bracket

Mounting bracket, right-angle, 316L stainless steel. Package of 2.  
For use with 3mm sensors.

| Accessories for 3mm Sensors |         |                                                                                                         |                     |             |
|-----------------------------|---------|---------------------------------------------------------------------------------------------------------|---------------------|-------------|
| Part Number                 | Price   | Description                                                                                             | Drawing Link        | Weight [lb] |
| <a href="#">OPT2037</a>     | \$25.50 | Wenglor mounting bracket, right-angle, 316L stainless steel. Package of 2.<br>For use with 3mm sensors. | <a href="#">PDF</a> | 0.02        |



[OPT2037](#)