



# DW Series 5mm Triple Sensing Proximity Sensors



## Miniature M5 (5mm) nickel silver– DC

- 5mm triple distance proximity sensor
- Complete overload protection
- IP67 rated
- Two M5 lock nuts included
- Nickel silver construction
- LED status indicator
- Lifetime warranty



### DW Series 5mm Triple Distance Inductive Proximity Selection Chart

| Part Number                         | Price   | Size | Sensing Range     | Mounting   | Output State | Logic | Connection              | Wiring    | Dimensions |
|-------------------------------------|---------|------|-------------------|------------|--------------|-------|-------------------------|-----------|------------|
| <b>Triple Distance</b>              |         |      |                   |            |              |       |                         |           |            |
| <a href="#"><u>DW-AD-501-M5</u></a> | \$99.00 | M5   | 2.5 mm [0.098 in] | Semi-flush | N.O.         | NPN   | 2m [6.5 ft] axial cable | Diagram 1 | Figure 1   |
| <a href="#"><u>DW-AD-503-M5</u></a> | \$99.00 | M5   | 2.5 mm [0.098 in] | Semi-flush | N.O.         | PNP   | 2m [6.5 ft] axial cable | Diagram 2 | Figure 1   |
| <a href="#"><u>DW-AS-501-M5</u></a> | \$99.00 | M5   | 2.5 mm [0.098 in] | Semi-flush | N.O.         | NPN   | M8 quick-disconnect     | Diagram 3 | Figure 2   |
| <a href="#"><u>DW-AS-503-M5</u></a> | \$99.00 | M5   | 2.5 mm [0.098 in] | Semi-flush | N.O.         | PNP   | M8 quick-disconnect     | Diagram 4 | Figure 2   |
| <a href="#"><u>DW-AD-502-M5</u></a> | \$99.00 | M5   | 2.5 mm [0.098 in] | Semi-flush | N.C.         | NPN   | 2m [6.5 ft] axial cable | Diagram 1 | Figure 1   |
| <a href="#"><u>DW-AD-504-M5</u></a> | \$99.00 | M5   | 2.5 mm [0.098 in] | Semi-flush | N.C.         | PNP   | 2m [6.5 ft] axial cable | Diagram 2 | Figure 1   |
| <a href="#"><u>DW-AS-502-M5</u></a> | \$99.00 | M5   | 2.5 mm [0.098 in] | Semi-flush | N.C.         | NPN   | M8 quick-disconnect     | Diagram 3 | Figure 2   |
| <a href="#"><u>DW-AS-504-M5</u></a> | \$99.00 | M5   | 2.5 mm [0.098 in] | Semi-flush | N.C.         | PNP   | M8 quick-disconnect     | Diagram 4 | Figure 2   |

### DW Series 5mm Triple Distance Inductive Proximity Specifications

| Specifications                              | DW-Ax-50x-M5                                     |
|---------------------------------------------|--------------------------------------------------|
| Mounting Type                               | Semi-flush                                       |
| Nominal Sensing Distance                    | 2.5 mm                                           |
| 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                    | ≤ 200mA                                          |
| Off-state (Leakage) Current                 | ≤ 0.1 mA                                         |
| Voltage Drop                                | ≤ 2V                                             |
| Switching Frequency                         | ≤ 800Hz                                          |
| Differential Travel (% of Nominal Distance) | ≤ 10%                                            |
| Repeat Accuracy                             | 0.03 mm                                          |
| Ripple                                      | ≤ 20%                                            |
| Time Delay Before Availability (tv)         | ≤ 30ms                                           |
| 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                            | Nickel silver                                    |
| Sensing Face Material                       | PPE [Noryl]                                      |
| Shock/Vibration                             | IEC 60947-5-2/7.4                                |
| Tightening Torque                           | –                                                |
| Weight                                      | 33g [1.16 oz], 5g [0.18 oz]                      |
| Connection                                  | 2m [6.5 ft] cable, M8 connection                 |
| IO-Link                                     | –                                                |
| Agency Approvals                            | CE, 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.

# DW Series 5mm Triple Sensing Proximity Sensors

## Dimensions

mm [inches]

Figure 1

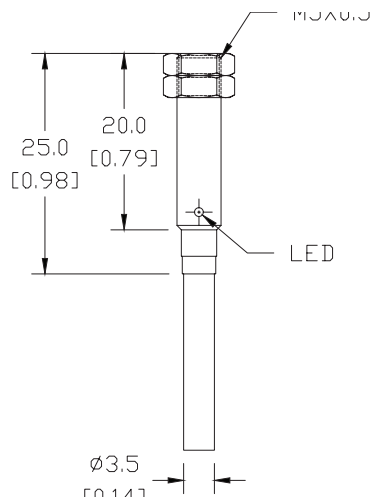
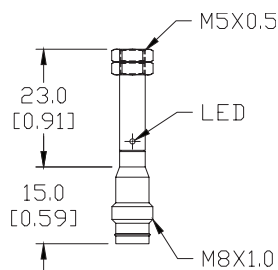


Figure 2



## Wiring Diagrams

Diagram 1

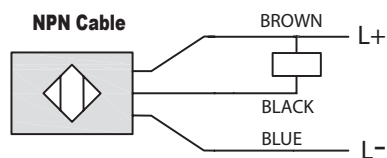
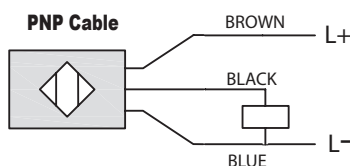


Diagram 2



Connectors

M8 connector

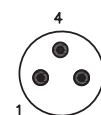


Diagram 3

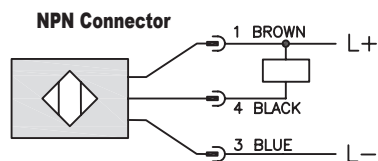
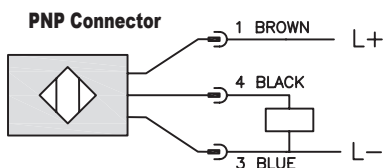


Diagram 4



# Accessories for 5mm Sensors

## Right-angle Mounting Bracket

Mounting bracket, right-angle, plastic. For use with 5mm sensors.

| Accessories for 5mm Sensors |        |                                                                              |                     |             |
|-----------------------------|--------|------------------------------------------------------------------------------|---------------------|-------------|
| Part Number                 | Price  | Description                                                                  | Drawing Link        | Weight [lb] |
| <a href="#">OPT2100</a>     | \$8.00 | Wenglor mounting bracket, right-angle, plastic.<br>For use with 5mm sensors. | <a href="#">PDF</a> | 0.02        |



[OPT2100](#)