



# DW Series Maritime Proximity Sensors



**DW-AD-603-M10E-620**

## M10 – DC

- Maritime approved
- IP68
- 304 stainless steel construction
- 10-30 VDC
- LED status indicator
- IO-Link v1.0
- Lifetime warranty



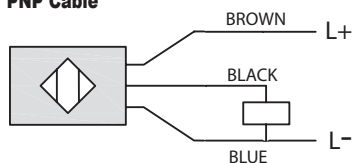
## DW Series Maritime Proximity Sensors

| Part Number                        | Price    | Size | Sensing Distance   | Mounting | Output State | Logic | Connection                       | Wiring    | Drawing Link        |
|------------------------------------|----------|------|--------------------|----------|--------------|-------|----------------------------------|-----------|---------------------|
| <a href="#">DW-AD-603-M10E-620</a> | \$295.00 | M10  | 0.6mm<br>[0.02 in] | Flush    | N.O.         | PNP   | 3-wire, pigtail, 9.25 in [235mm] | Diagram 1 | <a href="#">PDF</a> |
| <a href="#">DW-AD-603-M10E-637</a> | \$295.00 |      |                    | Flush    | N.O.         | PNP   | 3-wire, pigtail, 5.5 in [140mm]  | Diagram 1 | <a href="#">PDF</a> |

## Wiring Diagram

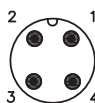
**Diagram 1**

**PNP Cable**



**Connector**

**M12 connector**





# DW Series Maritime Proximity Sensors Specifications

| DW Series Maritime Proximity Sensors Specifications     |  |
|---|--|
| <b>Sensor</b>   | <b>DW-AD-603-M10E-xxx</b>                        |
| <b>Assured Operating Distance</b>                       | $\leq (0.81 \times S_n)$ mm                      |
| <b>Rated Operating Distance</b>                         | 0.6 mm [0.02 in]                                 |
| <b>Material Correction Factors</b>                      | See the <a href="#">Material influence table</a> |
| <b>Output Type</b>                                      | PNP, N.O.  |
| <b>Operating Voltage</b>                                | 10 to 30 VDC                                     |
| <b>No-load Supply Current</b>                           | $\leq 10$ mA                                     |
| <b>Operating (Load) Current</b>                         | 200 mA   |
| <b>Off-state (Leakage) Current</b>                      | $\leq 0.1$ mA                                    |
| <b>Voltage Drop</b>                                     | $\leq 2.0$ VDC @200mA                            |
| <b>Switching Frequency</b>                              | $\leq 2.0$ kHz                                   |
| <b>Differential Travel<br/>(% of Nominal Distance)</b>  | $\leq 15\%$ $S_r$                                |
| <b>Repeat Accuracy</b>                                  | 0.03 mm  |
| <b>Ripple</b>   | $\leq 20\%$                                      |
| <b>Operating Pressure</b>                               | $\leq 200$ bar                                   |
| <b>Reverse Polarity Protection</b>                      | Yes  |
| <b>Short-Circuit Protection</b>                         | Yes  |
| <b>Operating Temperature<br/>(according to UL 70°C)</b> | -25 to 70°C<br>[-13 to 158°F]                    |
| <b>Protection Degree (DIN 40050)</b>                    | IP68   |
| <b>Indication/Switch Status</b>                         | Yellow LED                                       |
| <b>Housing Material</b>                                 | 304 Stainless steel                              |
| <b>Sensing Face Material</b>                            | Al <sub>2</sub> O <sub>3</sub> (Aluminum oxide)  |
| <b>Shock/Vibration</b>                                  | IEC 60947-5-2 / 7.4                              |
| <b>Tightening Torque</b>                                | 20 N•m   |
| <b>Weight</b>   | 28g [0.98 oz]                                    |
| <b>Connection</b>                                       | PUR, 3-wire, pigtail                             |
| <b>IO-Link</b>  | v1.0   |
| <b>Agency Approvals</b>                                 | CE, cULus E239373, DNVGL-CG-0339: 2016           |

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