



DW Series Inductive Proximity Sensors



DW-AD-611-C12P



DW-AD-611-C12P-1523

12 x 27mm Small Rectangular Plastic - DC

- LED status indicator
- IP67 rated
- 10-30 VDC
- Top or front sensing models
- N.O or N.C.
- IO-Link v1.0 (PNP models only)
- Mounting hardware included
- Lifetime warranty



| DW Series Inductive Proximity Sensors | | | | | | | | | |
|---------------------------------------|---------|------------------|-----------|--------------|-------|------------------------------|----------------|------------------|---------------------|
| Part Number | Price | Sensing Distance | Mounting | Output State | Logic | Connection | Wiring Diagram | Housing Size | Drawing Link |
| Top Sensing | | | | | | | | | |
| DW-AD-611-C12P | \$22.00 | 4mm [0.15 in] | Non-flush | N.O. | NPN | 3-wire, pigtail, 6.5ft/2m | 1 | 12 x 27 x 6.5 mm | PDF |
| DW-AD-612-C12P | \$22.00 | | | N.C. | NPN | | 1 | | PDF |
| DW-AD-613-C12P | \$22.00 | | | N.O. | PNP | | 2 | | PDF |
| Front Sensing | | | | | | | | | |
| DW-AD-611-C12P-1523 | \$22.00 | 4mm [0.15 in] | Non-flush | N.O. | NPN | 3-wire, pigtail, 6.5ft/2m | 1 | 12 x 27 x 12 mm | PDF |
| DW-AD-612-C12P-1523 | \$22.00 | | | N.C. | NPN | | 1 | | PDF |
| DW-AD-613-C12P-1523 | \$22.00 | | | N.O. | PNP | | 2 | | PDF |

Note: Mounting hardware included.

Wiring Diagrams

Diagram 1

NPN Cable

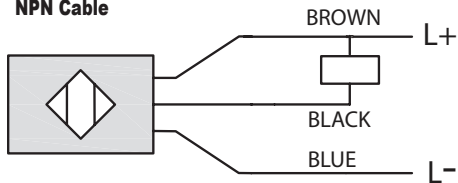
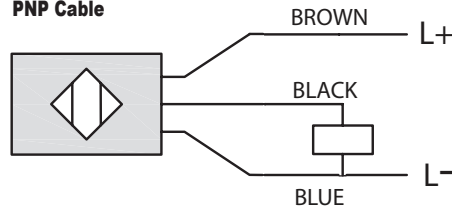


Diagram 2

PNP Cable





DW Series Inductive Proximity Sensors Specifications

| DW Series Inductive Proximity Sensors Specifications | |
|--|--|
| Rated Operating Distance | 4mm [0.15 in] |
| Assured Operating Distance | $\leq (0.81 \times S_r)$ mm |
| Material Correction Factors | See the Material influence table |
| Output Type | NPN or PNP, N.O. or N.C |
| Operating Voltage | 10 to 30 VDC |
| No-load Supply Current | ≤ 10 mA |
| Operating (Load) Current | 200mA |
| Off-state (Leakage) Current | ≤ 0.1 mA |
| Voltage Drop | ≤ 2.0 V |
| Switching Frequency | $\leq 2,000$ Hz |
| Differential Travel (% of Nominal Distance) | $\leq 10\%$ s_r |
| Repeat Accuracy | 0.2 mm |
| Ripple | $\leq 20\%$ U_B |
| 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, sensing state ($0 < s \leq S_r$) |
| Housing Material | Polycarbonate |
| Sensing Face Material | Polycarbonate |
| Shock/Vibration | IEC 60947-5-2 |
| Tightening Torque | ≤ 0.4 Nm (for M3 screw) |
| Weight | 33g [0.63 oz] |
| Connection | PVC, 3-wire, pigtail, 6.5 ft [2m] |
| IO-Link | v1.0 (PNP models) |
| Agency Approvals* | CE, cULus E239373, UKCA |

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