



# 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



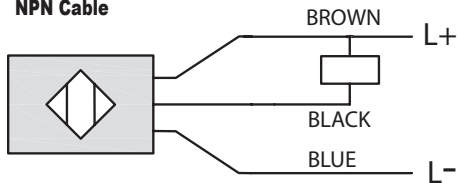
DW Series Inductive Proximity Sensors									
Part Number	Price	Sensing Distance	Mounting	Output State	Logic	Connection	Wiring Diagram	Housing Size	Drawing Link
<b>Top Sensing</b>									
<a href="#">DW-AD-611-C12P</a>	\$22.00	4mm [0.15 in]	Non-flush	N.O.	NPN	3-wire, pigtail, 6.5ft/2m	1	12 x 27 x 6.5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

Note: Mounting hardware included.

## Wiring Diagrams

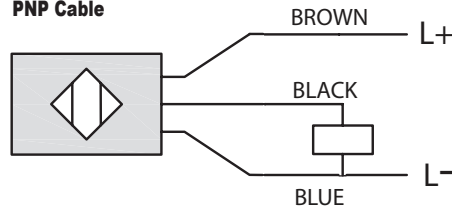
**Diagram 1**

**NPN Cable**



**Diagram 2**

**PNP Cable**





# DW Series Inductive Proximity Sensors Specifications

DW Series Inductive Proximity Sensors Specifications	
<b>Rated Operating Distance</b>	4mm [0.15 in]
<b>Assured Operating Distance</b>	$\leq (0.81 \times S_n)$ mm
<b>Material Correction Factors</b>	See the <a href="#">Material influence table</a>
<b>Output Type</b>	NPN or PNP, N.O. or N.C
<b>Operating Voltage</b>	10 to 30 VDC
<b>No-load Supply Current</b>	$\leq 10$ mA
<b>Operating (Load) Current</b>	200mA
<b>Off-state (Leakage) Current</b>	$\leq 0.1$ mA
<b>Voltage Drop</b>	$\leq 2.0$ V
<b>Switching Frequency</b>	$\leq 2,000$ Hz
<b>Differential Travel (% of Nominal Distance)</b>	$\leq 10\%$ $s_r$
<b>Repeat Accuracy</b>	0.2 mm
<b>Ripple</b>	$\leq 20\%$ $U_B$
<b>Reverse Polarity Protection</b>	Yes
<b>Short-Circuit Protection</b>	Yes
<b>Operating Temperature</b>	-25 to 70°C [-13 to 158°F]
<b>Protection Degree (DIN 40050)</b>	IP67
<b>Indication/Switch Status</b>	Yellow LED, sensing state ( $0 < s \leq S_r$ )
<b>Housing Material</b>	Polycarbonate
<b>Sensing Face Material</b>	Polycarbonate
<b>Shock/Vibration</b>	IEC 60947-5-2
<b>Tightening Torque</b>	$\leq 0.4$ Nm (for M3 screw)
<b>Weight</b>	33g [0.63 oz]
<b>Connection</b>	PVC, 3-wire, pigtail, 6.5 ft [2m]
<b>IO-Link</b>	v1.0 (PNP models)
<b>Agency Approvals*</b>	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.