

DW Series 4mm Inductive Proximity Sensors

Miniature M4 (4mm) stainless steel – DC



- Four models available
- Complete overload protection
- IP67 rated
- Two M4 lock nuts included
- Stainless steel construction
- LED status indicator
- Lifetime warranty



| DW Series M4 DC Inductive Prox Selection Chart | | | | | | | | | |
|--|---------|------|----------------|----------|--------------|-------|-----------------------|-----------|------------|
| Part Number | Price | Size | Sensing Range | Housing | Output State | Logic | Connection | Wiring | Dimensions |
| Extended Distance | | | | | | | | | |
| DW-AD-621-M4-960 | \$65.00 | M4 | 1mm (0.039 in) | Shielded | NO | NPN | 2m (6.5') axial cable | Diagram 1 | Figure 1 |
| DW-AD-623-M4-960* | \$65.00 | | | | | PNP | | Diagram 2 | Figure 1 |
| DW-AD-622-M4 | \$65.00 | | | | NC | NPN | | Diagram 1 | Figure 2 |
| DW-AD-624-M4 | \$65.00 | | | | | PNP | | Diagram 2 | Figure 2 |

* IO-Link model

Dimensions

mm [inches]

Figure 1

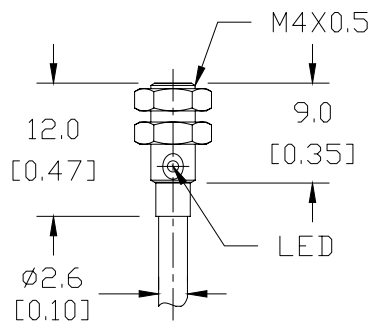
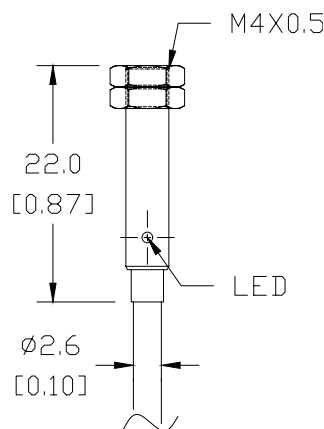


Figure 2



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DW Series 4mm Inductive Proximity Sensors

Miniature M4 (4mm) nickel silver – DC



- Eight models available
- 4mm smooth triple distance proximity sensor
- Complete overload protection
- IP67 rated

- Nickel silver construction
- LED status indicator
- Lifetime warranty



| DW Series 4mm Smooth Triple Distance Inductive Prox Selection Chart | | | | | | | | | |
|---|---------|-----------------------|----------------------|----------|--------------|-----------------------|-----------------------|-----------|------------|
| Part Number | Price | Size | Sensing Range | Housing | Output State | Logic | Connection | Wiring | Dimensions |
| Triple Distance | | | | | | | | | |
| DW-AD-501-04 | \$86.00 | Ø4 (Smooth barrel) | 2.5 mm (0.098 in) | Shielded | NO | NPN | 2m (6.5') axial cable | Diagram 1 | Figure 1 |
| DW-AD-503-04 | \$86.00 | | | | | PNP | | Diagram 2 | Figure 1 |
| DW-AS-501-04 | \$86.00 | | | | | NPN | M8 quick disconnect | Diagram 3 | Figure 2 |
| DW-AS-503-04 | \$86.00 | | | | | PNP | | Diagram 4 | Figure 2 |
| DW-AD-502-04 | \$86.00 | | | | NC | 2m (6.5') axial cable | NPN | Diagram 1 | Figure 1 |
| DW-AD-504-04 | \$86.00 | | | | | | PNP | Diagram 2 | Figure 1 |
| DW-AS-502-04 | \$86.00 | | | | | NPN | M8 quick disconnect | Diagram 3 | Figure 2 |
| DW-AS-504-04 | \$86.00 | | | | | PNP | | Diagram 4 | Figure 2 |

Dimensions

mm [inches]

Figure 1

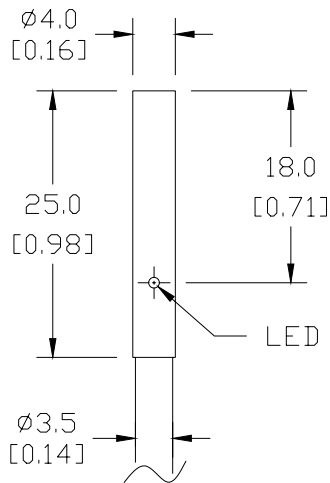
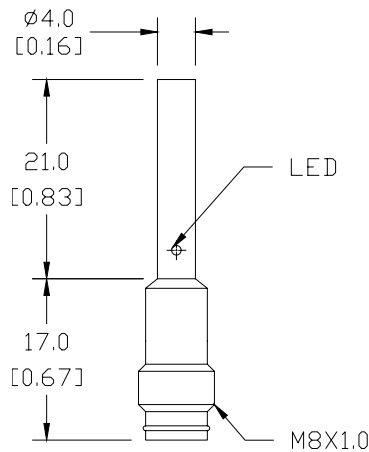


Figure 2



DW Series 4mm Inductive Proximity Sensors

| DW Series 4mm Specifications | | | |
|---|--|--------------|-------------------------------|
| Mounting Type | DW-Ax-62x-M4-96x | DW-Ax-62x-M4 | DW-Ax-50x-04 |
| | | | shielded |
| Nominal Sensing Distance | 1mm | | 2.5 mm |
| Operating Distance | - | | |
| Material Correction Factors | See the Material influence table | | |
| Output Type | NPN or PNP, NO or NC | | |
| Operating Voltage | 10 to 30 VDC | | |
| No-load Supply Current | ≤ 10mA | | |
| Operating (Load) Current | ≤ 100mA | | ≤ 200mA |
| Off-state (Leakage) Current | ≤ 0.1 mA | | |
| Voltage Drop | ≤ 2V | | |
| Switching Frequency | ≤8kHz | ≤3kHz | ≤800Hz |
| Differential Travel (% of Nominal Distance) | ≤ 10% | | |
| Repeat Accuracy | 0.02 mm | | |
| Ripple | ≤ 20% | | |
| Time Delay Before Availability (tv) | ≤10ms | | ≤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 | Stainless steel | | Nickel silver |
| Sensing Face Material | PET (Polyester) | | |
| Shock/Vibration | IEC 60947-5-2/7.4 | | |
| Tightening Torque | - | | |
| Weight | 20g (0.71 oz) or 6g (0.211 oz) | | 31g (1.09 oz) or 3g (0.11 oz) |
| Connection | 2m cable | | 2m cable or M8 connection |
| IO-Link | PNP/NO only | - | |
| 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.

Wiring diagrams

Diagram 1

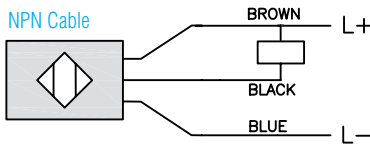


Diagram 2

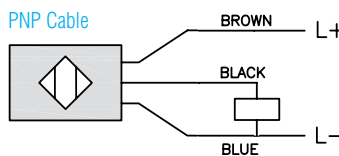


Diagram 3

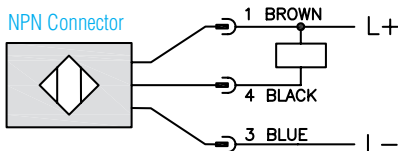
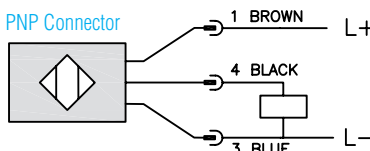
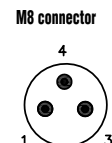


Diagram 4



Connectors



Accessories for 4mm Sensors

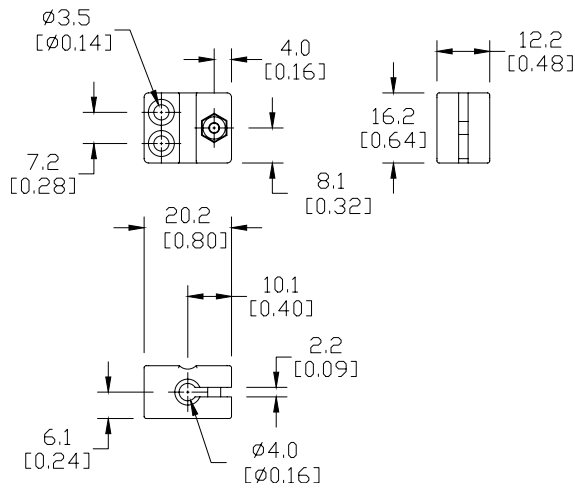
Right-angle Mounting Bracket

Mounting bracket, right-angle, plastic. For use with 4mm sensors.

| Accessories for 4mm Sensors | | | |
|-----------------------------|--------|---|-------------|
| Part Number | Price | Description | Weight [lb] |
| OPT2106 | \$6.00 | Mounting bracket, right-angle, plastic. For use with 4mm sensors. | 0.02 |

Dimensions

mm [inches]



OPT2106

See our website: www.AutomationDirect.com for complete engineering drawings