DW Series Analog Inductive Proximity Sensors

M18 (18mm) Metal – Analog Output



- Voltage or current analog output
- · Metal housing
- Axial cable or M12 quick-disconnect model
- Purchase cable separately (for quick-disconnect model)
- Lifetime warranty



| DW Series M18 Analog Inductive Proximity Selection Chart | | | | | | | | | |
|--|---|----------------------|------------|--------------------|-----------------------------|-----------|----------|--|--|
| Part Number | Part Number Price Sensing Range Mounting Output Connection Wiring Din | | | | | | | | |
| DW-AD-509-M18-120 | \$110.00 | 0-10 mm [0-0.393 in] | Semi-flush | 0-5 VDC / 1-5 mA | 2m [6.5 ft] axial cable | Diagram 1 | Figure 1 | | |
| DW-AS-509-M18-120 | \$110.00 | 0-10 mm [0-0.393 in] | Semi-flush | 0-5 VDC / 1-5 mA | M12 [12mm] quick-disconnect | Diagram 1 | Figure 2 | | |
| DW-AD-509-M18-320 | \$110.00 | 0-10 mm [0-0.393 in] | Semi-flush | 0-10 VDC / 4-20 mA | 2m [6.5 ft] axial cable | Diagram 1 | Figure 1 | | |
| DW-AS-509-M18-320 | \$110.00 | 0-10 mm [0-0.393 in] | Semi-flush | 0-10 VDC / 4-20 mA | M12 [12mm] quick-disconnect | Diagram 1 | Figure 2 | | |

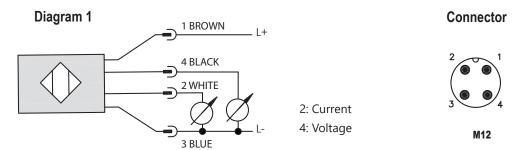
| Reverse Polarity ProtectionYesShort-Circuit ProtectionYes (switch auto-resets after overload is removed)Operating Temperature-25 to +70°C [-13 to 158°F]Protection Degree (DIN 40050)IEC IP67Indication/Switch StatusNAHousing MaterialChrome-plated brassSensing Face MaterialPolybutylene Terephthalate [PBT]Shock/VibrationIEC 60947-5-2Tightening Torque30 N·m (22 lb·ft)Weight (cable/M12 connector)110g [3.88 oz] / 50g [1.76 oz]Connection2m [6.5 ft] axial cable or M12 [12mm] connector | DW Series M1 | DW Series M18 Analog Inductive Proximity Specifications | | | | | | | |
|--|---|---|-----------------------------|--|--|--|--|--|--|
| Nominal Distance 0-10 mm [0-0.393 in] Operating Distance NA Material Correction Factors See the Material influence table Output Type 0-5 VDC or 1-5 mA 0-10 VDC or 4-20mA Current Output Max. Load / Power Supply 1kΩ 10VDC; 5kΩ / 30VDC 0.5kΩ / 15VDC; 1 kΩ / 30VDC Voltage Output Min. Load 500Ω 1kΩ Operating Voltage 10-30 VDC 15-30 VDC No-load Supply Current ≤ 10mA ≤ 12mA Operating (Load) Current NA Off-state (Leakage) Current NA Voltage Drop ≤ 2.0 V Switching Frequency NA Differential Travel (% of Nominal Distance) NA Repeat Accuracy ± 0.02 mm Ripple ≤ 20% Response Time 2 ms Time Delay Before Availability (tv) ≤ 50ms Input Voltage Transient Protection Yes (switch auto-resist after overload is removed) Operating Temperature </th <th>Specification</th> <th>DW-Ax-509-M18-120</th> <th>DW-Ax-509-M18-320</th> | Specification | DW-Ax-509-M18-120 | DW-Ax-509-M18-320 | | | | | | |
| Operating Distance NA Material Correction Factors See the Material influence table Output Type 0.5 VDC or 1.5 mA 0.10 VDC or 4.20mA Current Output Max. Load / Power Supply 1kΩ 100VDC; 5kΩ / 30VDC 0.5kΩ / 15VDC; 1kΩ / 30VDC Voltage Output Min. Load 5000 1kΩ Operating Voltage 10-30 VDC 15-30 VDC No-load Supply Current ≤ 10mA ≤ 12mA Operating (Load) Current NA Operating (Load) Current Off-state (Leakage) Current NA NA Voltage Drop ≤ 2.0 V Switching Frequency NA Switching Frequency NA NA Differential Travel (% of Nominal Distance) NA NA Repeat Accuracy ± 0.02 mm ≤ 20% Response Time 2ms 1mp (Voltage Transient Protection Up to 30VDC Reverse Polarity Protection Yes Short-Circuit Protection Yes Short-Circuit Protection Yes (switch auto-resets after overload is removed) Operating Temperature -25 to +70°C [-13 to 158°F] Protection Degree (DIN 40050) Indidication/Swit | Mounting Type | Semi-flu | ush | | | | | | |
| Material Correction Factors See the Material influence table Output Type 0-5 VDC or 1-5 mA 0-10 VDC or 4-20mA Current Output Max. Load / Power Supply 1kΩ / 10VDC; SkΩ / 30VDC 0.5kΩ / 15VDC; 1 kΩ / 30VDC Voltage Output Min. Load 5000Ω 1kΩ Operating Voltage 10-30 VDC 15-30 VDC No-load Supply Current ≤ 10mA ≤ 12mA Operating (Load) Current NA Off-state (Leakage) Current NA Voltage Drop ≤ 2.0 V Switching Frequency NA Switching Frequency NA NA Switching Frequency NA NA Proper Accuracy ± 0.02 mm NA Repeat Accuracy ± 0.02 mm Scomm Response Time 2ms Scomm <th>Nominal Distance</th> <th>0-10 mm [0-0</th> <th>0.393 in]</th> | Nominal Distance | 0-10 mm [0-0 | 0.393 in] | | | | | | |
| Output Type 0.5 VDC or 1-5 mA 0-10 VDC or 4-20mA Current Output Max. Load / Power Supply 1kΩ / 10VDC; 5kΩ / 30VDC 0.5kΩ / 15VDC; 1 kΩ / 30VDC Voltage Output Min. Load 500Ω 1kΩ Operating Voltage 10-30 VDC 15-30 VDC No-load Supply Current ≤ 10mA ≤ 12mA Operating (Load) Current NA NA Off-state (Leakage) Current NA NA Voltage Drop ≤ 20 V NA Switching Frequency NA NA Differential Travel (% of Nominal Distance) NA NA Repeat Accuracy ± 0.02 mm Response Time 2ms Ripple ≤ 20% Response Time 2ms Time Delay Before Availability (tv) ≤ 50ms Input Voltage Transient Protection Up to 30VDC Reverse Polarity Protection Yes Short-Circuit Protection Yes (switch auto-resets after overload is removed) Operating Temperature -25 to +70°C [-13 to 158°F] Protection Degree (DIN 40050) IEC IP67 Indication/Switch Status NA NA NA | Operating Distance | NA | | | | | | | |
| Current Output Max. Load / Power Supply 1kΩ / 10VDC; skΩ / 30VDC 0.5kΩ / 15VDC; 1kΩ / 30VDC Voltage Output Min. Load 500Ω 1kΩ Operating Voltage 10-30 VDC 15-30 VDC No-load Supply Current ≤ 10mA ≤ 12mA Operating (Load) Current NA NA Off-state (Leakage) Current NA NA Voltage Drop ≤ 2.0 V Switching Frequency NA NA Differential Travel (% of Nominal Distance) NA NA Repeat Accuracy ± 0.02 mm Response Time 2ms Time Delay Before Availability (tv) ≤ 50ms Input Voltage Transient Protection Up to 30VDC Reverse Polarity Protection Yes Short-Circuit Protection Yes (switch auto-resets after overload is removed) Operating Temperature -25 to +70°C [-13 to 188°F] Protection Degree (DIN 40050) IEC (P67 Indication/Switch Status NA NA Housing Material Chrome-plated brass Sensing Face Material Polybutylene Temphthalate (PBT) Shock/Vibration IEC 60947-5-2 <t< th=""><th>Material Correction Factors</th><th>See the Material in</th><th>nfluence table</th></t<> | Material Correction Factors | See the Material in | nfluence table | | | | | | |
| Voltage Output Min. Load 500Ω 1kΩ Operating Voltage 10-30 VDC 15-30 VDC No-load Supply Current ≤ 10mA ≤ 12mA Operating (Load) Current NA Off-state (Leakage) Current NA Voltage Drop ≤ 2.0 V Switching Frequency NA Differential Travel (% of Nominal Distance) NA Repeat Accuracy ± 0.02 mm Ripple ≤ 20% Response Time 2ms Time Delay Before Availability (tv) ≤ 50ms Input Voltage Transient Protection Yes Short-Circuit Protection Yes (switch auto-resets after overload is removed) Operating Temperature -25 to +70°C [-13 to 158°F] Protection Degree (DIN 40050) IEC IP67 Indication/Switch Status NA Housing Material Chrome-plated brass Sensing Face Material Polybutylene Terephthalate [PBT] Shock/Vibration IEC 60947-5-2 Tightening Torque 30 N-m (22 b-ft) Weight (cable/M12 connector) 2m [6.5 ft] axial cable or M12 [12mm] connector | Output Type | 0-5 VDC or 1-5 mA | 0-10 VDC or 4-20mA | | | | | | |
| Operating Voltage 10-30 VDC 15-30 VDC No-load Supply Current ≤ 10mA ≤ 12mA Operating (Load) Current 10mA ≤ 10mA Off-state (Leakage) Current NA NA Voltage Drop ≤ 2.0 V Switching Frequency NA Differential Travel (% of Nominal Distance) NA NA Repeat Accuracy ± 0.02 mm *** Ripple ≤ 20% *** Response Time 2ms *** Time Delay Before Availability (tv) ≤ 50ms Input Voltage Transient Protection Yes Short-Circuit Protection Yes Short-Circuit Protection Yes (switch auto-resets after overload is removed) Operating Temperature -25 to +70°C [-13 to 158°F] Protection Degree (DIN 40050) IEC IP67 Indication/Switch Status NA Housing Material Chrom-plated brass Sensing Face Material Polybutylene Terephthalate [PBT] Shock/Vibration IEC 60947-5-2 Tightening Torque 30 N-m (22 b-ft) Weight (cable/M12 conne | Current Output Max. Load / Power Supply | 1kΩ / 10VDC; 5kΩ / 30VDC | 0.5kΩ / 15VDC; 1 kΩ / 30VDC | | | | | | |
| No-load Supply Current ≤ 10mA ≤ 12mA Operating (Load) Current ≤ 10mA Off-state (Leakage) Current NA Voltage Drop ≤ 2.0 V Switching Frequency NA Differential Travel (% of Nominal Distance) NA Repeat Accuracy ± 0.02 mm Ripple ≤ 20% Response Time 2ms Time Delay Before Availability (tv) ≤ 50ms Input Voltage Transient Protection Yes Short-Circuit Protection Yes (switch auto-resets after overload is removed) Operating Temperature -25 to +70°C [-13 to 158°F] Protection Degree (DIN 40050) IEC IP67 Indication/Switch Status NA Housing Material Chrome-plate brass Sensing Face Material Polybutylene Terephthalate [PBT] Shock/Vibration IEC 60947-5-2 Tightening Torque 30 N·m (22 lb·ft) Weight (cable/M12 connector) 2m [6.5 ft] axial cable or M12 [12mm] connector | Voltage Output Min. Load | 500Ω | 1kΩ | | | | | | |
| Operating (Load) Current ≤ 10mA Off-state (Leakage) Current NA Voltage Drop ≤ 2.0 V Switching Frequency NA Differential Travel (% of Nominal Distance) NA Repeat Accuracy ± 0.02 mm Ripple ≤ 20% Response Time 2ms Time Delay Before Availability (tv) ≤ 50ms Input Voltage Transient Protection Up to 30VDC Reverse Polarity Protection Yes Short-Circuit Protection Yes (switch auto-resets after overload is removed) Operating Temperature -25 to +70°C [-13 to 158°F] Protection Degree (DIN 40050) IEC IP67 Indication/Switch Status NA Housing Material Chrome-plated brass Sensing Face Material Polybutylene Terephthalate [PBT] Shock/Vibration IEC 60947-5-2 Tightening Torque 30 N·m (22 lb·ft) Weight (cable/M12 connector) 2m [6.5 ft] axial cable or M12 [12mm] connector | Operating Voltage | 10-30 VDC | 15-30 VDC | | | | | | |
| Off-state (Leakage) Current NA Voltage Drop ≤ 2.0 V Switching Frequency NA Differential Travel (% of Nominal Distance) NA Repeat Accuracy ± 0.02 mm Ripple ≤ 20% Response Time 2ms Time Delay Before Availability (tv) ≤ 50ms Input Voltage Transient Protection Up to 30VDC Reverse Polarity Protection Yes Short-Circuit Protection Yes (switch auto-resets after overload is removed) Operating Temperature -25 to +70°C [-13 to 158°F] Protection Degree (DIN 40050) IEC IP67 Indication/Switch Status NA Housing Material Chrome-plated brass Sensing Face Material Polybutylene Terepthalate [PBT] Shock/Vibration IEC 60947-5-2 Tightening Torque 30 N·m (22 lb-ft) Weight (cable/M12 connector) 2m [6.5 ft] axial cable or M12 [12mm] connector | No-load Supply Current | ≤ 10mA | ≤ 12mA | | | | | | |
| Voltage Drop ≤ 2.0 V Switching Frequency NA Differential Travel (% of Nominal Distance) NA Repeat Accuracy ± 0.02 mm Ripple ≤ 20% Response Time 2ms Time Delay Before Availability (tv) ≤ 50ms Input Voltage Transient Protection Up to 30VDC Reverse Polarity Protection Yes Short-Circuit Protection Yes (switch auto-resets after overload is removed) Operating Temperature -25 to +70°C [-13 to 158°F] Protection Degree (DIN 40050) IEC IP67 Indication/Switch Status NA Housing Material Chrome-plated brass Sensing Face Material Polybutylene Terephthalate [PBT] Shock/Vibration IEC 60947-5-2 Tightening Torque 30 N·m (22 lb·ft) Weight (cable/M12 connector) 2m [6.5 ft] axial cable or M12 [12mm] connector | Operating (Load) Current | ≤ 10m | A | | | | | | |
| Switching Frequency NA Differential Travel (% of Nominal Distance) NA Repeat Accuracy ± 0.02 mm Ripple ≤ 20% Response Time 2ms Time Delay Before Availability (tv) ≤ 50ms Input Voltage Transient Protection Up to 30VDC Reverse Polarity Protection Yes Short-Circuit Protection Yes (switch auto-resets after overload is removed) Operating Temperature -25 to +70°C [-13 to 158°F] Protection Degree (DIN 40050) IEC IP67 Indication/Switch Status NA Housing Material Chrome-plated brass Sensing Face Material Polybutylene Terephthalate [PBT] Shock/Vibration IEC 60947-5-2 Tightening Torque 30 N·m (22 lb·ft) Weight (cable/M12 connector) 2m [6.5 ft] axial cable or M12 [12mm] connector | Off-state (Leakage) Current | NA | | | | | | | |
| Differential Travel (% of Nominal Distance) NA Repeat Accuracy ± 0.02 mm Ripple ≤ 20% Response Time 2ms Time Delay Before Availability (tv) ≤ 50ms Input Voltage Transient Protection Up to 30VDC Reverse Polarity Protection Yes Short-Circuit Protection Yes (switch auto-resets after overload is removed) Operating Temperature -25 to +70°C [-13 to 158°F] Protection Degree (DIN 40050) IEC IP67 Indication/Switch Status NA Housing Material Chrome-plated brass Sensing Face Material Polybutylene Terephthalate [PBT] Shock/Vibration IEC 60947-5-2 Tightening Torque 30 N·m (22 lb·ft) Weight (cable/M12 connector) 2m [6.5 ft] axial cable or M12 [12mm] connector | Voltage Drop | ≤ 2.0 ′ | V | | | | | | |
| ### ### ############################# | Switching Frequency | NA | | | | | | | |
| Ripple ≤ 20% Response Time 2ms Time Delay Before Availability (tv) ≤ 50ms Input Voltage Transient Protection Up to 30VDC Reverse Polarity Protection Yes Short-Circuit Protection Yes (switch auto-resets after overload is removed) Operating Temperature -25 to +70°C [-13 to 158°F] Protection Degree (DIN 40050) IEC IP67 Indication/Switch Status NA Housing Material Chrome-plated brass Sensing Face Material Polybutylene Terephthalate [PBT] Shock/Vibration IEC 60947-5-2 Tightening Torque 30 N*m (22 lb*ft) Weight (cable/M12 connector) 110g [3.88 oz] / 50g [1.76 oz] Connection 2m [6.5 ft] axial cable or M12 [12mm] connector | Differential Travel (% of Nominal Distance) | NA | | | | | | | |
| Response Time 2ms Time Delay Before Availability (tv) ≤ 50ms Input Voltage Transient Protection Up to 30VDC Reverse Polarity Protection Yes Short-Circuit Protection Yes (switch auto-resets after overload is removed) Operating Temperature -25 to +70°C [-13 to 158°F] Protection Degree (DIN 40050) IEC IP67 Indication/Switch Status NA Housing Material Chrome-plated brass Sensing Face Material Polybutylene Terephthalate [PBT] Shock/Vibration IEC 60947-5-2 Tightening Torque 30 N·m (22 lb·ft) Weight (cable/M12 connector) 110g [3.88 oz] / 50g [1.76 oz] Connection 2m [6.5 ft] axial cable or M12 [12mm] connector | Repeat Accuracy | ± 0.02 r | nm | | | | | | |
| Time Delay Before Availability (tv) ≤ 50ms Input Voltage Transient Protection Up to 30VDC Reverse Polarity Protection Yes Short-Circuit Protection Yes (switch auto-resets after overload is removed) Operating Temperature -25 to +70°C [-13 to 158°F] Protection Degree (DIN 40050) IEC IP67 Indication/Switch Status NA Housing Material Chrome-plated brass Sensing Face Material Polybutylene Terephthalate [PBT] Shock/Vibration IEC 60947-5-2 Tightening Torque 30 N·m (22 lb·ft) Weight (cable/M12 connector) 110g [3.88 oz] / 50g [1.76 oz] Connection 2m [6.5 ft] axial cable or M12 [12mm] connector | Ripple | ≤ 20% | 6 | | | | | | |
| Input Voltage Transient Protection Up to 30VDC Reverse Polarity Protection Yes Short-Circuit Protection Yes (switch auto-resets after overload is removed) Operating Temperature -25 to +70°C [-13 to 158°F] Protection Degree (DIN 40050) IEC IP67 Indication/Switch Status NA Housing Material Chrome-plated brass Sensing Face Material Polybutylene Terephthalate [PBT] Shock/Vibration IEC 60947-5-2 Tightening Torque 30 N·m (22 lb·ft) Weight (cable/M12 connector) 110g [3.88 oz] / 50g [1.76 oz] Connection 2m [6.5 ft] axial cable or M12 [12mm] connector | Response Time | 2ms | | | | | | | |
| Reverse Polarity ProtectionYesShort-Circuit ProtectionYes (switch auto-resets after overload is removed)Operating Temperature-25 to +70°C [-13 to 158°F]Protection Degree (DIN 40050)IEC IP67Indication/Switch StatusNAHousing MaterialChrome-plated brassSensing Face MaterialPolybutylene Terephthalate [PBT]Shock/VibrationIEC 60947-5-2Tightening Torque30 N·m (22 lb·ft)Weight (cable/M12 connector)110g [3.88 oz] / 50g [1.76 oz]Connection2m [6.5 ft] axial cable or M12 [12mm] connector | Time Delay Before Availability (tv) | ≤ 50m | ns . | | | | | | |
| Short-Circuit ProtectionYes (switch auto-resets after overload is removed)Operating Temperature-25 to +70°C [-13 to 158°F]Protection Degree (DIN 40050)IEC IP67Indication/Switch StatusNAHousing MaterialChrome-plated brassSensing Face MaterialPolybutylene Terephthalate [PBT]Shock/VibrationIEC 60947-5-2Tightening Torque30 N•m (22 lb•ft)Weight (cable/M12 connector)110g [3.88 oz] / 50g [1.76 oz]Connection2m [6.5 ft] axial cable or M12 [12mm] connector | Input Voltage Transient Protection | Up to 30\ | VDC | | | | | | |
| Operating Temperature -25 to +70°C [-13 to 158°F] Protection Degree (DIN 40050) IEC IP67 Indication/Switch Status NA Housing Material Chrome-plated brass Sensing Face Material Polybutylene Terephthalate [PBT] Shock/Vibration IEC 60947-5-2 Tightening Torque 30 N·m (22 lb·ft) Weight (cable/M12 connector) 110g [3.88 oz] / 50g [1.76 oz] Connection 2m [6.5 ft] axial cable or M12 [12mm] connector | Reverse Polarity Protection | Yes | | | | | | | |
| Protection Degree (DIN 40050) IEC IP67 Indication/Switch Status NA Housing Material Chrome-plated brass Sensing Face Material Polybutylene Terephthalate [PBT] Shock/Vibration IEC 60947-5-2 Tightening Torque 30 N⋅m (22 lb⋅ft) Weight (cable/M12 connector) 110g [3.88 oz] / 50g [1.76 oz] Connection 2m [6.5 ft] axial cable or M12 [12mm] connector | Short-Circuit Protection | Yes (switch auto-resets after | r overload is removed) | | | | | | |
| Indication/Switch Status NA Housing Material Chrome-plated brass Sensing Face Material Polybutylene Terephthalate [PBT] Shock/Vibration IEC 60947-5-2 Tightening Torque 30 № (22 lb•ft) Weight (cable/M12 connector) 110g [3.88 oz] / 50g [1.76 oz] Connection 2m [6.5 ft] axial cable or M12 [12mm] connector | Operating Temperature | -25 to +70°C [-1 | 3 to 158°F] | | | | | | |
| Housing Material Chrome-plated brass Sensing Face Material Polybutylene Terephthalate [PBT] Shock/Vibration IEC 60947-5-2 Tightening Torque 30 N⋅m (22 lb⋅ft) Weight (cable/M12 connector) 110g [3.88 oz] / 50g [1.76 oz] Connection 2m [6.5 ft] axial cable or M12 [12mm] connector | Protection Degree (DIN 40050) | IEC IPC | 67 | | | | | | |
| Sensing Face Material Polybutylene Terephthalate [PBT] Shock/Vibration IEC 60947-5-2 Tightening Torque 30 N⋅m (22 lb⋅ft) Weight (cable/M12 connector) 110g [3.88 oz] / 50g [1.76 oz] Connection 2m [6.5 ft] axial cable or M12 [12mm] connector | Indication/Switch Status | NA | | | | | | | |
| Shock/Vibration IEC 60947-5-2 Tightening Torque 30 N·m (22 lb·ft) Weight (cable/M12 connector) 110g [3.88 oz] / 50g [1.76 oz] Connection 2m [6.5 ft] axial cable or M12 [12mm] connector | Housing Material | Chrome-plate | ed brass | | | | | | |
| Tightening Torque 30 N•m (22 lb•ft) Weight (cable/M12 connector) 110g [3.88 oz] / 50g [1.76 oz] Connection 2m [6.5 ft] axial cable or M12 [12mm] connector | Sensing Face Material | Polybutylene Terep | hthalate [PBT] | | | | | | |
| Weight (cable/M12 connector) 110g [3.88 oz] / 50g [1.76 oz] Connection 2m [6.5 ft] axial cable or M12 [12mm] connector | Shock/Vibration | IEC 6094 | 7-5-2 | | | | | | |
| Connection 2m [6.5 ft] axial cable or M12 [12mm] connector | Tightening Torque | 30 N•m (22 | 2 lb•ft) | | | | | | |
| | Weight (cable/M12 connector) | 110g [3.88 oz] / 5 | 60g [1.76 oz] | | | | | | |
| Agency Approvals | Connection | 2m [6.5 ft] axial cable or M | 112 [12mm] connector | | | | | | |
| Agency Approvais | Agency Approvals | UL file E23 | 39373 | | | | | | |

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

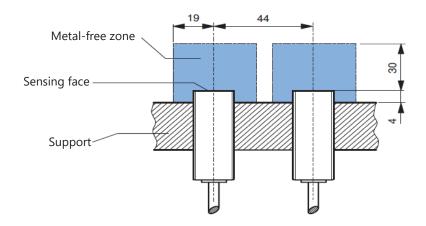
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DW Series Analog Inductive Proximity Sensors

Wiring Diagram



Installation



Dimensions

mm [inches]

Figure 1

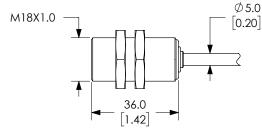
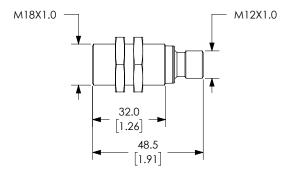


Figure 2



Accessories for 18mm Sensors

Axial Mounting Bracket

Axial mounting bracket available in zinc plated steel or 316L stainless steel. Has two mounting holes (use 4mm screws) and allows for rotation of an optical axis for right-beam-angle-adapter sensors. Hexagonal nuts not included. For use with 18mm sensors.

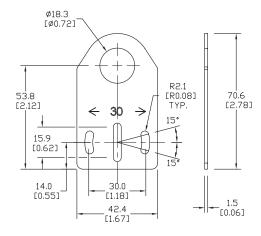
| Accessories for 18mm Sensors | | | | | | |
|------------------------------|---|---|--|--|--|--|
| Part Number | Part Number Price Description Weight Ib [g] | | | | | |
| <u>ST18A</u> | \$2.00 | Micro Detectors mounting bracket, axial, zinc plated steel. For use with 18mm sensors. | | | | |
| <u>ST18A7W</u> | \$7.25 | Micro Detectors mounting bracket, axial, 316L stainless steel. For use with 18mm sensors. | | | | |



ST18A

Dimensions

mm [inches]



Right-angle Mounting Bracket

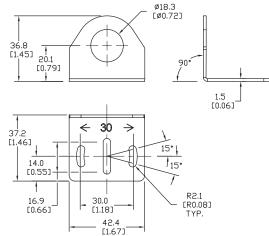
Right-angle mounting bracket for use with 18mm sensors. Has two mounting holes (use 4mm screws) and allows the rotation of an optical axis for axial sensors. Hexagonal nuts not included.

| | Accessories for 18mm Sensors | | | | | |
|----------------|--|---|-------------|--|--|--|
| Part Number | Part Number Price Description Weigh Ib [g] | | | | | |
| <u>ST18C</u> | \$2.00 | Micro Detectors mounting bracket, right-angle, zinc plated steel. For use with 18mm sensors. | 0.06 [27.2] | | | |
| <u>ST18C7W</u> | \$7.25 | Micro Detectors mounting bracket, right-angle, 316L stainless steel. For use with 18mm sensors. | 0.06 [27.2] | | | |



Dimensions

mm [inches]



Accessories for 18mm Sensors

Right-angle Mounting Brackets

Mounting bracket, right-angle, fixed insertion stop adjustment, plastic. For use with 18mm sensors. Available with or without fixed insertion stop.

| | Accessories for 18mm Sensors | | | | | | | |
|----------------|------------------------------|---|-----------------|------------------|--|--|--|--|
| Part Number | Price | Description | Drawing Link | Weight lb [g] | | | | |
| <u>OPT2104</u> | \$10.50 | Wenglor mounting bracket, right-angle, fixed insertion stop adjustment, plastic. For use with 18mm sensors. | PDF | 0.06 [27.2] | | | | |
| <u>OPT2105</u> | \$10.50 | Wenglor mounting bracket, right-angle, plastic. For use with 18mm sensors. | <u>PDF</u> | 0.06 [27.2] | | | | |



OPT2104, OPT2105

Right-angle Swivel Mounting Systems

Mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 12mm rod mount. For use with 18mm sensors. Available in all 304 stainless steel or with an aluminum head and a stainless steel mounting plate.

| | Accessories for 18mm Sensors | | | | | | | |
|----------------|------------------------------|--|---------------------------|---------------------------|-----------------|------------------|--|--|
| Part Number | Price | Description | Mounting Head | Mounting Plate | Drawing Link | Weight lb [g] | | |
| <u>OPT2116</u> | \$11.50 | Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, aluminum, 12mm rod mount. For use with 18mm sensors. | Aluminum | 304 Stainless steel | <u>PDF</u> | 0.15 [68.0] | | |
| <u>OPT2117</u> | \$21.00 | Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 304 stainless steel, 12mm rod mount. For use with 18mm sensors. | 304 Stainless steel | 304 Stainless steel | <u>PDF</u> | 0.28 [127.0] | | |



Note: 304 Stainless steel mounting rods sold separately: <u>OPT2109</u> (200mm [7.87 in] length), <u>OPT2110</u> (300mm [11.81 in] length), and <u>OPT2111</u> (500mm [19.69 in] length).

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Mounting Rods and Brackets

Mounting Rods

304 Stainless steel rods for mounting swivel brackets <u>OPT2112</u> - <u>OPT2127</u> Available in three lengths: 200mm, 300mm, and 500mm. 12mm diameter.

| M | Mounting Rods for OPT2112-2127 Swivel Mounting Brackets | | | | | | | |
|----------------|---|---|-----------------|------------------|--|--|--|--|
| Part Number | Price | Description | Drawing Link | Weight lb (g) | | | | |
| <u>OPT2109</u> | \$13.00 | Wenglor mounting rod, 12mm diameter, 200mm length, 304 stainless steel. | PDF | 0.41 [185.97] | | | | |
| <u>OPT2110</u> | \$16.00 | Wenglor mounting rod, 12mm diameter, 300mm length, 304 stainless steel. | PDF | 0.60 [272.16] | | | | |
| <u>OPT2111</u> | \$21.00 | Wenglor mounting rod, 12mm diameter, 500mm length, 304 stainless steel. | <u>PDF</u> | 0.98 [444.52] | | | | |



Right-angle Mounting Bracket

Mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.

| Right-angle Mounting Brackets for 12mm Sensors | | | | | | | |
|--|---------|---|------------|------------------|--|--|--|
| Part Number Price Description | | | | Weight Ib [g] | | | |
| <u>OPT2108</u> | \$16.00 | Wenglor mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111. | <u>PDF</u> | 0.07 [31.8] | | | |



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