

# **CONTRINEX** DW Series 18mm Stainless Steel **Triple Sensing Proximity Sensors**

### M18 (18mm) stainless steel – DC

- 18mm threaded triple distance proximity sensor
- 20mm sensing
- Complete overload protection
- IP68/IP69k rated
- Two M18 lock nuts included

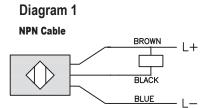
- Stainless steel construction
- One-piece for harsh duty applications
- LED status indicator
- Lifetime warranty



DW Series 18mm Stainless Steel Triple Distance Inductive Proximity Selection Chart									
Part Number	Price	Size	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions
Triple Distance									
DW-AD-711-M18					N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
DW-AD-713-M18 *					N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
DW-AS-711-M18-002					N.O.	NPN	M12 quick-disconnect	Diagram 3	Figure 2
DW-AS-713-M18-002 *		M18	20mm [0.787 in]	Non-flush	N.O.	PNP	M12 quick-disconnect	Diagram 4	Figure 2
DW-AD-712-M18					N.C.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
DW-AD-714-M18					N.C.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
DW-AS-714-M18-002					N.C.	PNP	M12 quick-disconnect	Diagram 4	Figure 2
*IO-l ink model									

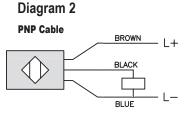
IO-Link model

## Wiring Diagrams

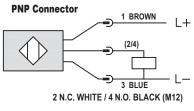


**Diagram 3 NPN Connector** 1 BROWN L+ (2/4) 3 BLUE · | --5

#### 2 N.C. WHITE / 4 N.O. BLACK (M12)







#### Connectors

#### M12 connector



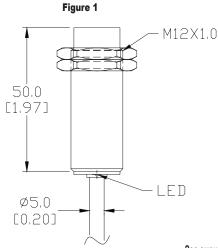
# **DW Series 18mm Stainless Steel Triple Sensing Proximity Sensors**

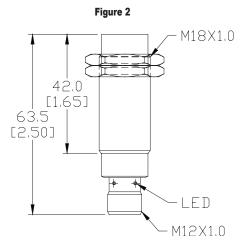
DW Series 18mm Sta	inless Steel Triple Distance Inductive Proximity Specifications
Specifications	DW-Ax-71x-M18
Mounting Type	Non-flush
Nominal Sensing Distance	20mm [0.787 in]
Operating Distance	-
Material Correction Factors	See the Material influence table
Output Type	NPN or PNP, N.O. or N.C.
Operating Voltage	10 to 30 VDC
No-load Supply Current	≤ 10mA
Operating (Load) Current	≤ 200mA
Off-state (Leakage) Current	≤ 0.1 mA
Voltage Drop	≤2 V
Switching Frequency	≤ 200 Hz
Differential Travel (% of Nominal Distance)	≤ 10%
Repeat Accuracy	0.60 mm
Ripple	≤ 20%
Time Delay Before Availability (tv)	≤ 15ms
Reverse Polarity Protection	Yes
Short-Circuit Protection	Yes
Operating Temperature	-25 to 85°C [-13 to 185°F]
Protection Degree (DIN 40050)	IP68, IP69K
Indication/Switch Status	Yellow LED
Housing Material	Stainless steel
Sensing Face Material	Stainless steel
Shock/Vibration	IEC 60947-5-2/7.4
Tightening Torque	-
Weight	112g [3.95 oz], 51g [1.80 oz]
Connection	2m [6.5 ft] cable, M12 connection
IO-Link	PNP/N.O. version only
Agency Approvals	CE, cULus E239373

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

#### Dimensions

mm [inches]





See our website for complete engineering drawings.

# **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.

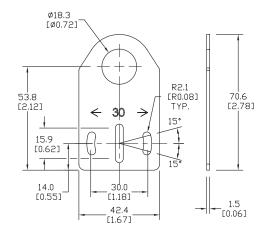
Accessories for 18mm Sensors						
Part Number Price Description Weight Ib [g]						
<u>ST18A</u>		Micro Detectors mounting bracket, axial, zinc plated steel. For use with 18mm sensors.	0.06 [27.2]			
<u>ST18A7W</u>		Micro Detectors mounting bracket, axial, 316L stainless steel. For use with 18mm sensors.	0.06 [27.2]			



<u>ST18A</u>

## 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.

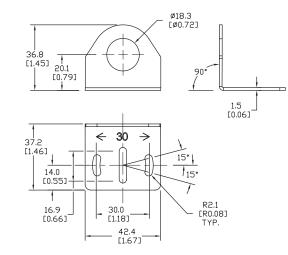
	Accessories for 18mm Sensors					
Part Number	Part Number Price Description					
<u>ST18C</u>		Micro Detectors mounting bracket, right-angle, zinc plated steel. For use with 18mm sensors.	0.06 [27.2]			
<u>ST18C7W</u>		Micro Detectors mounting bracket, right-angle, 316L stainless steel. For use with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



<u>ST18C</u>

# 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	r Price I IIescription		Drawing Link	Weight Ib [g]					
<u>OPT2104</u>		Wenglor mounting bracket, right-angle, fixed insertion stop adjustment, plastic. For use with 18mm sensors.	PDF	0.06 [27.2]					
<u>OPT2105</u>		Wenglor mounting bracket, right-angle, plastic. For use with 18mm sensors.	PDF	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 Ib [g]	
<u>OPT2116</u>		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>		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]	



OPT2116, OPT2117

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).

# **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 Ib (g)				
<u>OPT2109</u>		Wenglor mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	PDF	0.41 [185.97]				
<u>OPT2110</u>		Wenglor mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	PDF	0.60 [272.16]				
<u>OPT2111</u>		Wenglor mounting rod, 12mm diameter, 500mm length, 304 stainless steel.	PDF	0.98 [444.52]				



## **Right-angle Mounting Bracket**

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

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

