



# DW Series 18mm Inductive Proximity Sensors



## Features of M18 (18mm)

- Twelve models available
- Flush and non-flush models
- LED status indicator
- IP67 rated
- Two M18 lock nuts included
- Complete overload protection
- Lifetime warranty
- IO Link (PNP N.O. models only)



Dw Series M18 Inductive Proximity Sensor Selection Chart										
Part Number	Price	Frequency	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Weight	Drawing Link
<b>Standard Sensing Distance</b>										
<b>DW-AS-601-M18-002</b>	<b>\$17.50</b>	2000Hz	5.0mm	Flush	N.O.	NPN	M12 quick-disconnect	Diagram 1	43g	<a href="#">PDF</a>
<b>DW-AS-603-M18-002</b>	<b>\$17.50</b>	2000Hz	5.0mm	Flush	N.O.	PNP	M12 quick-disconnect	Diagram 2	43g	<a href="#">PDF</a>
<b>DW-AS-604-M18-002</b>	<b>\$17.50</b>	2000Hz	5.0mm	Flush	N.C.	PNP	M12 quick-disconnect	Diagram 3	43g	<a href="#">PDF</a>
<b>DW-AS-611-M18-002</b>	<b>\$17.50</b>	2000Hz	8.0mm	Non-flush	N.O.	NPN	M12 quick-disconnect	Diagram 1	49g	<a href="#">PDF</a>
<b>DW-AS-613-M18-002</b>	<b>\$17.50</b>	2000Hz	8.0mm	Non-flush	N.O.	PNP	M12 quick-disconnect	Diagram 2	49g	<a href="#">PDF</a>
<b>DW-AS-614-M18-002</b>	<b>\$17.50</b>	2000Hz	8.0mm	Non-flush	N.C.	PNP	M12 quick-disconnect	Diagram 3	49g	<a href="#">PDF</a>
<b>Extended Sensing Distance</b>										
<b>DW-AS-621-M18-002</b>	<b>\$21.50</b>	1500Hz	8.0mm	Flush	N.O.	NPN	M12 quick-disconnect	Diagram 1	51g	<a href="#">PDF</a>
<b>DW-AS-623-M18-002</b>	<b>\$21.50</b>	1500Hz	8.0mm	Flush	N.O.	PNP	M12 quick-disconnect	Diagram 2	51g	<a href="#">PDF</a>
<b>DW-AS-624-M18-002</b>	<b>\$21.50</b>	1500Hz	8.0mm	Flush	N.C.	PNP	M12 quick-disconnect	Diagram 3	51g	<a href="#">PDF</a>
<b>DW-AS-631-M18-002</b>	<b>\$21.50</b>	500Hz	12.0mm	Non-flush	N.O.	NPN	M12 quick-disconnect	Diagram 1	105g	<a href="#">PDF</a>
<b>DW-AS-633-M18-002</b>	<b>\$21.50</b>	500Hz	12.0mm	Non-flush	N.O.	PNP	M12 quick-disconnect	Diagram 2	105g	<a href="#">PDF</a>
<b>DW-AS-634-M18-002</b>	<b>\$21.50</b>	500Hz	12.0mm	Non-flush	N.C.	PNP	M12 quick-disconnect	Diagram 3	105g	<a href="#">PDF</a>



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DW Series M18 Specifications				
Sensor	DW-Ax-60x-M18	DW-Ax-62x-M18	DW-Ax-61x-M18	DW-Ax-63x-M18
Mounting Type	Flush		Non-flush	
Nominal Sensing Distance	5mm	8mm	8mm	12mm
Operating Distance	-			
Material Correction Factors	See the <a href="#">Material influence table</a>			
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 @ 200mA			
Switching Frequency	3000Hz	2500Hz	2000Hz	1400Hz
Differential Travel (% of Nominal Distance)	< 20%			
Repeat Accuracy	0.10 mm	0.20 mm		0.40 mm
Ripple	≤ 20%			
Time Delay Before Availability (tv)	≤ 80ms	≤ 60ms	≤ 80ms	≤ 50ms
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	Indicator LED, Yellow, Solid (When the target is between 0-80% of Range, the LED will be solid) Indicator LED, Yellow, Blinking (When the target is between 80-100% of Range, the LED will blink to let you know it is nearing max range)			
Housing Material	Nickel Plated Brass			
Sensing Face Material	PBTP (Crastin)			
Shock/Vibration	IEC 60947-5-2/7.4			
Tightening Torque	25 Nm			
Connection	4-Pole M12 connection			
IO-Link	IO-Link (PNP, N.O. version 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

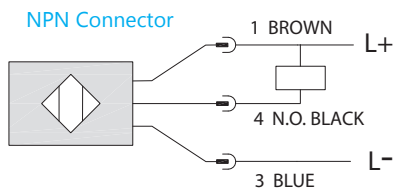


Diagram 2

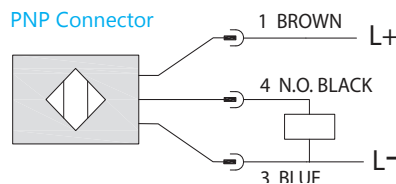
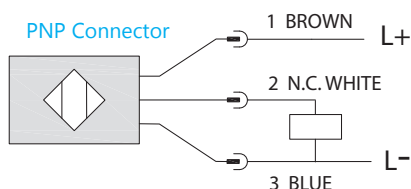
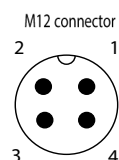


Diagram 3



## Connectors

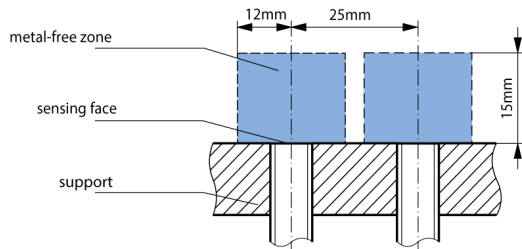




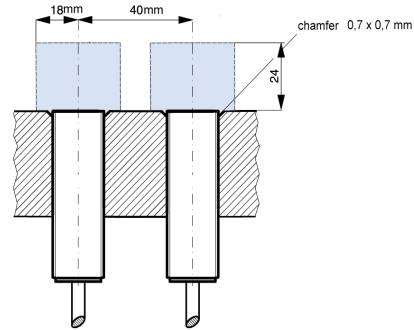
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## Installation

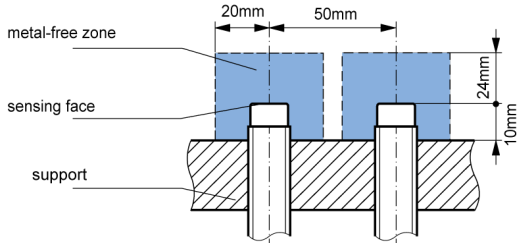
DW-Ax-60x-M18



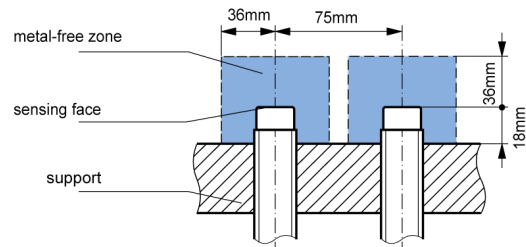
DW-Ax-62x-M18



DW-Ax-61x-M18

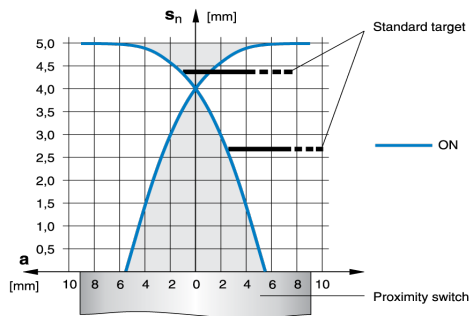


DW-Ax-63x-M18

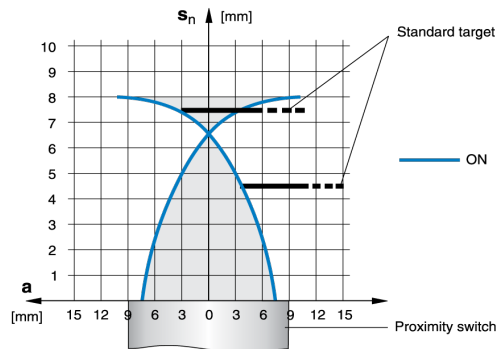


## Response Diagrams

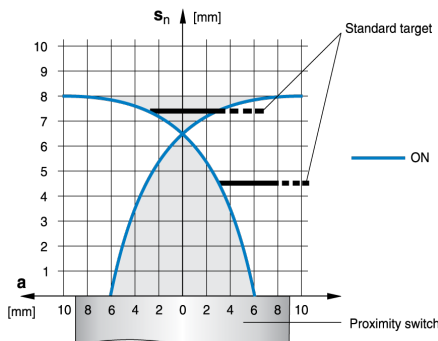
DW-Ax-60x-M18



DW-Ax-62x-M18



DW-Ax-61x-M18



DW-Ax-63x-M18

