



DW Series High Temperature Proximity Sensors



M8, M12, M18, M30 and M50 – DC

- High temperature up to 230°C [446°F]
- IP67
- Stainless steel construction with ceramic sensing face
- Mounting hardware included
- 10-30 VDC
- One-piece for harsh duty applications
- Lifetime warranty



DW-HD-613-M30-411
DW-HD-603-M12-200

DW Series High Temperature Proximity Sensors											
Part Number	Price	Size	Sensing Distance	Temperature Rating	Mounting	Output State	Logic	Connection	Wiring Diagram	Drawing Link	
DW-HD-621-M8-100	\$180.00	M8	2mm [0.07 in]	0 to 140°C [32 to 284°F]	Flush	N.O.	NPN	3-wire, pigtail, 6.5 ft [2m]	1	PDF	
DW-HD-623-M8-100	\$180.00				Flush	N.O.	PNP	3-wire, pigtail, 6.5 ft [2m]	2	PDF	
DW-HD-601-M12-200	\$189.00	M12	3mm [0.11 in]	0 to 150°C [32 to 302°F]	Flush	N.O.	NPN	3-wire, pigtail, 6.5 ft [2m]	1	PDF	
DW-HD-603-M12-200	\$189.00				Flush	N.O.	PNP	3-wire, pigtail, 6.5 ft [2m]	2	PDF	
DW-HD-601-M18-310	\$249.00	M18	5mm [0.19 in]	0 to 180°C [32 to 356°F]	Flush	N.O.	NPN	3-wire, pigtail, 6.5 ft [2m]	1	PDF	
DW-HD-603-M18-310	\$249.00				Flush	N.O.	PNP	3-wire, pigtail, 6.5 ft [2m]	2	PDF	
DW-HD-601-M18-411	\$300.00			0 to 230°C [32 to 446°F]	Flush	N.O.	NPN	3-wire, pigtail, 16.4 ft [5m]	1	PDF	
DW-HD-603-M18-411	\$300.00				Flush	N.O.	PNP	3-wire, pigtail, 16.4 ft [5m]	2	PDF	
DW-HD-601-M30-310	\$285.00	M30	10mm [0.39 in]	0 to 180°C [32 to 356°F]	Flush	N.O.	NPN	3-wire, pigtail, 6.5 ft [2m]	1	PDF	
DW-HD-603-M30-310	\$285.00				Flush	N.O.	PNP	3-wire, pigtail, 6.5 ft [2m]	2	PDF	
DW-HD-601-M30-411	\$340.00			0 to 230°C [32 to 446°F]	Flush	N.O.	NPN	3-wire, pigtail, 16.4 ft [5m]	1	PDF	
DW-HD-603-M30-411	\$340.00				Flush	N.O.	PNP	3-wire, pigtail, 16.4 ft [5m]	2	PDF	
DW-HD-611-M30-411	\$340.00		15mm [0.59 in]		Non-flush	N.O.	NPN	3-wire, pigtail, 16.4 ft [5m]	1	PDF	
DW-HD-613-M30-411	\$340.00				Non-flush	N.O.	PNP	3-wire, pigtail, 16.4 ft [5m]	2	PDF	
DW-HD-613-M50-517	\$575.00	M50	25mm [0.98 in]	-25 to 230°C [-13 to 446°F]	Non-flush	N.O.	PNP	3-wire, pigtail, 39.3 ft [12m]	2	PDF	

Wiring Diagrams

Diagram 1

NPN Cable

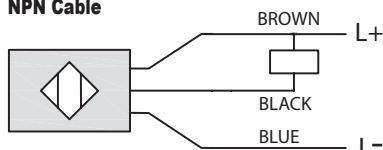
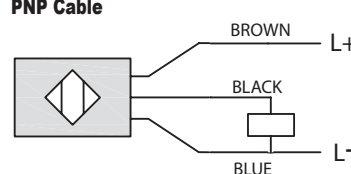


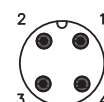
Diagram 2

PNP Cable



Connector

M12 connector





DW Series High Temperature Proximity Sensors Specifications

DW Series High Temperature Proximity Sensors Specifications				
Sensor	DW-HD-62x-M8-100	DW-HD-60x-M12-200	DW-HD-60x-M18-310	DW-HD-60x-M18-411
Assured Operating Distance	2mm [0.07 in]	3mm [0.11in]	5mm [0.19 in]	
Material Correction Factors	See the Material influence table			
Output Type	NPN or PNP, N.O.			
Operating Voltage	10 to 30 VDC			
No-load Supply Current	≤ 10mA			
Operating (Load) Current	120mA (≤ 100°C) 80mA (> 100°C)	120mA (≤ 100 °C) 70mA (> 100 °C)	150mA	≤ 200mA
Off-state (Leakage) Current	≤ 0.1 mA			
Voltage Drop	≤ 2.0 VDC @120mA		≤ 2.0 VDC @150mA	
Switching Frequency	≤ 600Hz	500Hz	400Hz	300Hz
Differential Travel (% of Nominal Distance)	3 to 15% s _r		2 to 20% s _r	3 to 15% s _r
Repeat Accuracy	≤ 0.02 mm			
Ripple	≤ 15%			≤ 20 %
Time Delay Before Availability (tv)	250 msec			
Reverse Polarity Protection	Yes			
Short-Circuit Protection	Yes			
Operating Temperature (according to UL 70°C)	0 to 140°C [32 to 284°F]	0 to 150°C [32 to 302°F]	0 to 180°C [32 to 356°F]	0 to 230°C [32 to 446°F]
Protection Degree (DIN 40050)	IP67			
Indication/Switch Status	—			Yellow LED
Housing Material	304 Stainless steel			
Sensing Face Material	LCP (Liquid Crystal Polymer)			
Shock/Vibration	IEC 60947-5-2 / 7.4			
Tightening Torque	10 N•m	20 N•m	20 N•m	20 N•m
Weight	75g [2.64 oz]	95g [3.35 oz]	105g [3.70 oz]	200g [7.05 oz]
Connection	3-wire, pigtail, 6.5 ft [2m], Silicone		3-wire, pigtail, 6.5 ft [2m], Teflon	3-wire, pigtail, 16.4 ft [5m], Teflon/PUR
IO-Link	No			
Agency Approvals	CE			

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Note: To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.



DW Series High Temperature Proximity Sensors Specifications

DW Series High Temperature Proximity Sensors Specifications (continued)				
Sensor	DW-HD-60x-M30-310	DW-HD-60x-M30-411	DW-HD-61x-M30-411	DW-HD-613-M50-517
Assured Operating Distance	10mm [0.39 in]		15mm [0.59 in]	25mm [0.98 in]
Material Correction Factors	See the Material influence table			
Output Type	NPN or PNP, N.O.			
Operating Voltage	10 to 30 VDC			
No-load Supply Current	≤ 10mA	≤ 5mA		
Operating (Load) Current	150mA	≤ 200mA		
Off-state (Leakage) Current	≤ 0.1 mA			
Voltage Drop	≤ 2.0 VDC @150mA	≤ 2.0 VDC @200mA		
Switching Frequency	≤ 200Hz		≤ 150Hz	
Differential Travel (% of Nominal Distance)	3 to 15% s _r			
Repeat Accuracy	≤ 0.02mm			
Ripple	≤ 15%	≤ 20 %		
Time Delay Before Availability (tv)	250 msec			
Reverse Polarity Protection	Yes			
Short-Circuit Protection	Yes			
Operating Temperature (according to UL 70°C)	0 to 180°C [32 to 356°F]	0 to 230°C [32 to 446°F]		-25 to 230°C [-13 to 446°F]
Protection Degree (DIN 40050)	IP67			
Indication/Switch Status	—	Yellow LED		
Housing Material	304 Stainless steel			
Sensing Face Material	LCP (Liquid Crystal Polymer)			
Shock/Vibration	IEC 60947-5-2 / 7.4			
Tightening Torque	20 N•m	20 N•m	20 N•m	20 N•m
Weight	200g [7.05 oz]	210g [7.40 oz]	200g [7.05 oz]	480g [16.93 oz]
Connection	3-wire, pigtail, 6.5 ft [2m], Teflon	3-wire, pigtail, 16.4 ft [5m], Teflon/PUR		3-wire, pigtail, 39.3 ft [12m], Teflon/PUR
IO-Link	No			
Agency Approvals	CE			

Continued from previous page

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