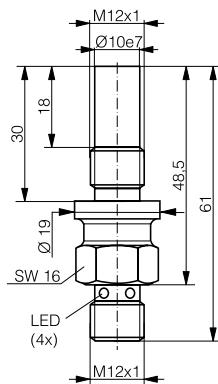


INDUCTIVE SENSOR

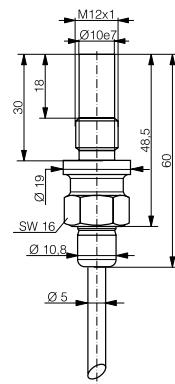
WASHDOWN

DW-Lx-70x-P12G

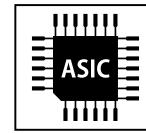
HOUSING	OPERATING DISTANCE	MOUNTING	
M12	1.5 mm	Embeddable	<ul style="list-style-type: none"> ✓ One-piece housing in stainless steel V4A ✓ Robust and food-safe ✓ Corrosion resistant ✓ IP68 and IP69K, Ecolab ✓ Long operating distance ✓ Factor 1 on Fe and Al ✓ IO-Link v1.1



DW-LS-70x-P12G



DW-LD-70x-P12G



DETECTION DATA		INTERFACE	
Rated operating distance (S_n)	1.5 mm	Indicator LED, yellow	Sensing state ($0 \leq s \leq 0.8 S_n$)
Assured operating distance (S_a)	$\leq (0.81 \times S_n) \text{ mm}$	Indicator LED, yellow, blinking	Sensing state ($0.8 S_n < s \leq S_n$)
Repeat accuracy	$\leq 0.06 \text{ mm}$	IO-Link	✓
Hysteresis	$3\% S_n \leq \text{Hyst} \leq 15\% S_n$	MTTF (@40°C)	948 y
Temperature drift	$\leq 10\% S_n$		
Standard target	10 x 10 x 1 mm ³ , FE360		

Note: $0.9S_n \leq S \leq 1.1S_n$.

ELECTRICAL DATA		MECHANICAL DATA	
Supply voltage range (U_B)	10...30 VDC	Operating pressure	≤ 500 bar
Residual ripple	≤ 20% U_B	Peak pressure	≤ 800 bar
Output current	≤ 200 mA	Mounting	Embeddable
Output voltage drop	≤ 2.0 VDC	Housing material	V4A / 1.4435 / AISI 316L
Power consumption (no-load)	≤ 10 mA	Sensing face material	V4A / 1.4435 / AISI 316L
Residual current	≤ 0.1 mA	Max tightening torque	50 Nm
Switching frequency	≤ 850 Hz	Ambient operating temperature	-25...+85°C ¹
Short-circuit protection	✓	Enclosure rating	IP68 / IP69K
Voltage reversal protection	✓	Weight (cable/connector)	see page 2
Cable length max.	≤ 300 m	Shock and vibration	IEC 60947-5-2 / 7.4

¹Maximum temperature according to UL: 70°C.

Note: all data measured according to IEC 60947-5-2 standard with $U_B=20 \dots 30 \text{VDC}$, $T_A=23^\circ\text{C} \pm 5^\circ\text{C}$.

CORRECTION FACTORS FOR TARGET OF

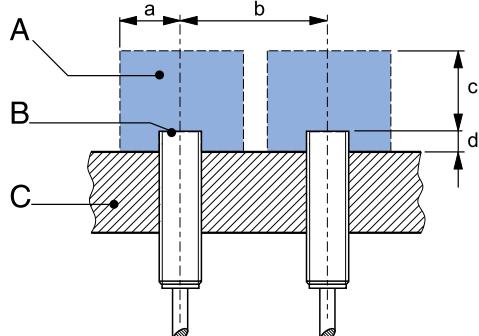
Steel FE 360	1	Copper	0.8	Aluminum	1	Brass	1.5	Stainless Steel V2A 1/2 mm	0 / 0
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CORRECTION FACTORS FOR EMBEDDABLE MOUNTING IN SUPPORT OF

Steel FE 360	1	Aluminum	0.6	Brass	0.7	Stainless Steel V2A	0.8
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Note: the operating distance of the sensor must be multiplied by the correction factor of the material. For example, the operating distance on Aluminum is $S_{n, Al} = S_n \times CF_{Al}$. In case of embeddable mounting, the distance is multiplied by the additional correction factor of the support, thus $S_{n, Al} = S_n \times CF_{Al} \times CF_{emb, Al}$.

INSTALLATION CONDITIONS



A : metal free zone

B : sensing face

C : support

a : 5mm

b : 30mm

c : 5mm

d : steel 0mm

IO-LINK FUNCTIONALITIES

IO-Link version	1.1
SIO mode	Supported
Process data	7-bit input
Baudrate	COM2 (38.4 kBaud)
Minimum cycle time	10.4 ms
ISDU	Not supported



IODD files may be downloaded from

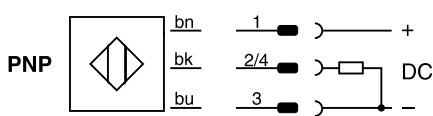
www.contrinex.com/product-range/inductive-sensors/.

Select the product name to display the product page with corresponding downloads.

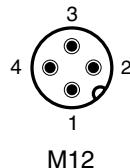
Alternatively, just click/scan the QR code on the left.

Note: additional installation information can be found in the glossary of the Contrinex General Catalog.

WIRING DIAGRAM



PIN ASSIGNMENT



AVAILABLE TYPES

Part number	Part reference	Polarity	Connection	Output on pin 2	Output on pin 4 / bk	Weight
330-320-082	DW-LD-703-P12G-003	PNP	PUR, 2 m, 3 wire	-	Normally open (NO) / IO-Link	106 g
330-320-083	DW-LS-703-P12G	PNP	M12 4-pin	-	Normally open (NO) / IO-Link	40 g



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Note: part reference may include additional suffix to indicate a revision version or special version. Further information is available on request.

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