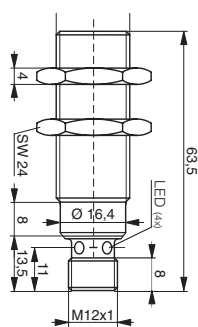
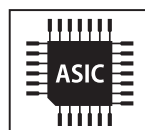


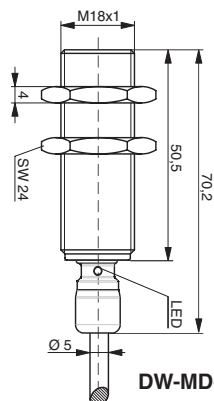
CONTRINEX

INDUCTIVE SENSOR MARITIME DW-Mx-703-M18

HOUSING	OPERATING DISTANCE	MOUNTING	✓ Maritime approved: DNVGL-CG-0339: 2016	✓ Extremely robust
M18	10 mm	Embeddable	✓ One-piece stainless-steel housing (IP 68 / IP 69K)	✓ Sea-water resistant
				✓ Factor 1 on steel and aluminum



DW-MS-703-M18-002



DW-MD-703-M18

DETECTION DATA		INTERFACE	
Rated operating distance (S_n)	10 mm	Indicator LED, yellow	Sensing state ($0 \leq s \leq 0.8 S_r$)
Assured operating distance (S_a)	$\leq (0.81 \times S_n)$ mm	Indicator LED, yellow, blinking	Sensing state ($0.8 S_r < s \leq S_r$)
Repeat accuracy	0.3 mm	IO-Link	✓
Hysteresis	$\leq 15\% S_r$		
Temperature drift	$\leq 10\% S_r$		
Standard target	30 x 30 x 1 mm, FE 360		

Notes: $0.9S_n \leq S_a \leq 1.1S_n$ / Further information on sensing ranges provided in the Contrinex catalog available on Contrinex homepage.

ELECTRICAL DATA		MECHANICAL DATA	
Supply voltage range (U_B)	10...30 VDC	Mounting	Embeddable
Residual ripple	$\leq 20\% U_B$	Housing material	Stain. steel V4A (1.4404 / AISI 316L)
Output current	≤ 200 mA	Sensing face material	Stain. steel V4A (1.4404 / AISI 316L)
Output voltage drop	$\leq 2,0$ V at 200 mA	Operating pressure	60 bar max.
Power consumption (no-load)	≤ 10 mA	Ambient temperature operation	-25 ... +85 °C
Residual current	≤ 0.1 mA	Enclosure rating	IP68, IP69K
Switching frequency	≤ 200 Hz	Weight (cable/connector)	117 g / 51 g
Short-circuit protection	✓	Shock and vibration	IEC 60947-5-2 / 7.4
Voltage reversal protection	✓		
Cable length max.	300 m		

Note: all data measured according to IEC 60947-5-2 standard with $U_B=20...30$ VDC, $T_A=23$ °C \pm 5 °C.

CORRECTION FACTORS

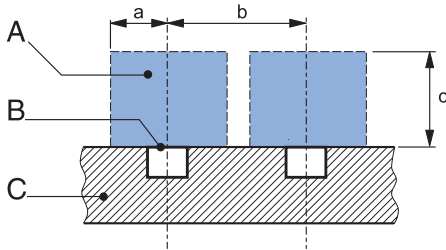
Steel FE 360	1.0	Copper	0.85	Aluminum	1.0	Brass	1.25	Stainless S. V4A 1 / 2 mm	0.5 / 0.9
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CORRECTION FACTORS FOR EMBEDDABLE MOUNTING IN SUPPORT OF

Steel FE 360	0,75	Copper	-	Aluminum	0.9	Brass	0.75	Stainless S. V4A	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



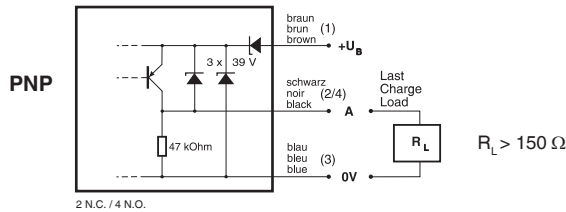
A : metal free zone a : 25 mm
 B : sensing face b : 50 mm
 C : support c : 30 mm

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

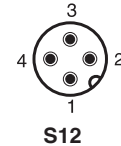
IO-LINK FUNCTIONALITIES

IO-Link version	1.0
SIO mode	Supported
Process data	Detection 80% S_r & 100% S_r
Baudrate	COM2 (38.4 kBaud)
Special functions	NO/NC selection, output timing, event flags

WIRING DIAGRAM



PIN ASSIGNMENT



AVAILABLE TYPES

Part number	Part reference	Polarity	Connection	Output on pin 4
320 420 752	DW-MS-703-M18-002	PNP	connector S12	Normally open (NO) / IO-Link
320 420 753	DW-MD-703-M18	PNP	cable 2 m PUR	Normally open (NO) / IO-Link

Notes:

- Part reference may include additional suffix to indicate a revision version or special version. Further information is available on request.
- Temperature expansion due to ambient temperature changes needs to be considered for mounting fixtures and targets.

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