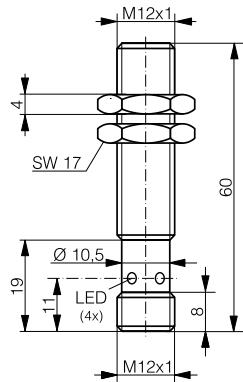
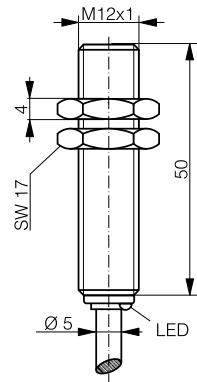


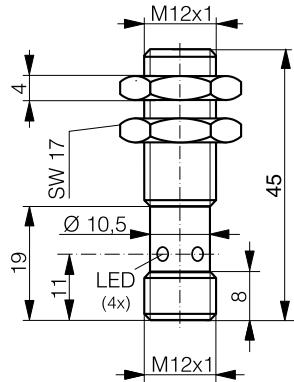
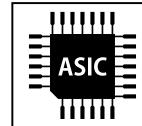
HOUSING	OPERATING DISTANCE	MOUNTING	
M12	3 mm	Embeddable	



DW-AS-70x-M12-BAS



DW-AD-70x-M12-BAS



DW-AS-70x-M12-120-BAS

DETECTION DATA		INTERFACE	
Rated operating distance (S_n)	3 mm	Indicator LED, yellow	Sensing state ($0 \leq s \leq 0.8 S_n$)
Assured operating distance (S_a)	$\leq (0.81 \times S_n)$ mm	Indicator LED, yellow, blinking	Sensing state ($0.8 S_n < s \leq S_r$)
Repeat accuracy	≤ 0.2 mm	IO-Link	✓
Hysteresis	$3\% S_r \leq \text{Hyst} \leq 15\% S_r$	MTTF (@40°C)	1017 y
Temperature drift	$\leq 10\% S_r$		
Standard target	12 x 12 x 1 mm ³ , FE360		

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

ELECTRICAL DATA		MECHANICAL DATA	
Supply voltage range (U_B)	10...30 VDC	Mounting	Embeddable
Residual ripple	$\leq 20\% U_B$	Housing material	V2A / 1.4305 / AISI 303
Output current	≤ 200 mA	Sensing face material	V2A / 1.4305 / AISI 303
Output voltage drop	≤ 2.0 VDC	Max tightening torque	20 Nm
Power consumption (no-load)	≤ 10 mA	Ambient operating temperature	-25...+70°C ¹
Residual current	≤ 0.1 mA	Enclosure rating	IP68 / IP69K
Switching frequency	≤ 100 Hz	Weight (cable/connector)	see page 2
Short-circuit protection	✓	Shock and vibration	IEC 60947-5-2 / 7.4
Voltage reversal protection	✓		
Cable length max.	≤ 300 m		

¹Maximum temperature according to UL: 70°C.

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

CORRECTION FACTORS FOR TARGET OF

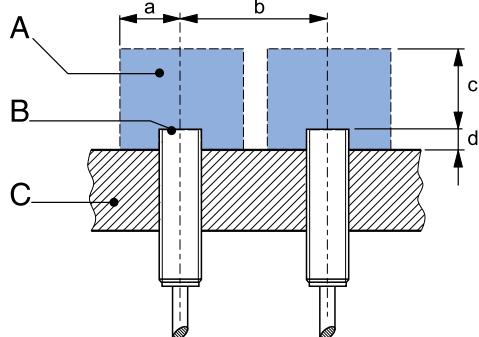
Steel FE 360	1	Copper	0.9	Aluminum	1	Brass	1.4	Stainless Steel V2A 1/2 mm	0.2 / 0.6
--------------	---	--------	-----	----------	---	-------	-----	----------------------------	-----------

CORRECTION FACTORS FOR EMBEDDABLE MOUNTING IN SUPPORT OF

Steel FE 360	0.9	Aluminum	0.9	Brass	0.9	Stainless Steel V2A	0.9
--------------	-----	----------	-----	-------	-----	---------------------	-----

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 : 10mm

b : 25mm

c : 9mm

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/.

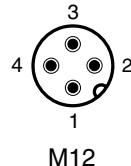
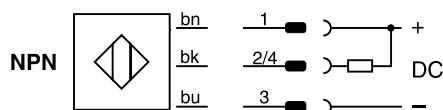
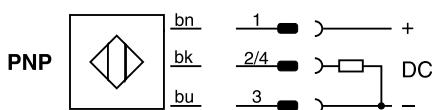
Select the product name to display the product page with corresponding downloads.

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
330-320-121	DW-AS-703-M12-BAS	PNP	M12 4-pin	-	Normally open (NO) / IO-Link	25 g
320-720-102	DW-AS-701-M12-BAS	NPN	M12 4-pin	-	Normally open (NO)	25 g
330-320-143	DW-AS-703-M12-120-BAS	PNP	M12 4-pin	-	Normally open (NO) / IO-Link	25 g
330-320-125	DW-AD-703-M12-BAS	PNP	PUR, 2 m, 3 wire	-	Normally open (NO) / IO-Link	89 g
320-720-110	DW-AD-701-M12-BAS	NPN	PUR, 2 m, 3 wire	-	Normally open (NO)	89 g



Nyckelvägen 7
142 50 SKOGÅS, Sweden

Tel: +46 (0) 771 02 20
info@hemomatik.se

www.hemomatik.se

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

Operators of the products we supply are responsible for compliance with measures for the protection of persons. The use of our equipment in applications where the safety of persons might be at risk is only authorized if the operator observes and implements separate, appropriate and necessary measures for the protection of persons and machines. Terms of delivery and rights to change design reserved.