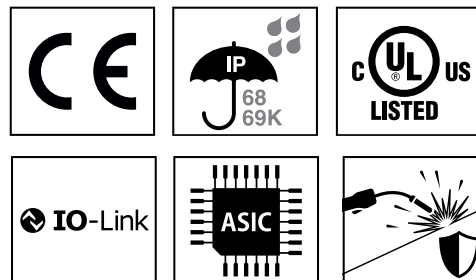
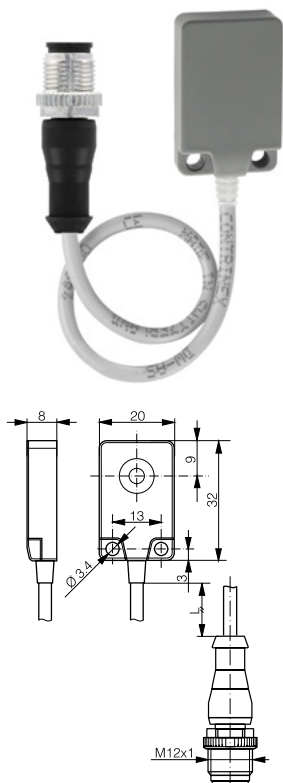




INDUCTIVE SENSOR
WELD-IMMUNE
DW-Ax-70x-C23-6xx

HOUSING	OPERATING DISTANCE	MOUNTING	<ul style="list-style-type: none"> ✓ Anti-spatter coating ✓ Magnetic-field immunity: medium frequency ≤ 15 kA 50 Hz fields ≤ 40 mT 	<ul style="list-style-type: none"> ✓ Robust full-metal sensor, impact resistant ✓ Long operating distance ✓ Factor 1 on Fe and Al
32 x 20 (C23)	7 mm	Embeddable		



DW-Ax-70x-C23-6xx

DETECTION DATA		INTERFACE	
Rated operating distance (S _n)	7 mm	Indicator LED, yellow	Sensing state (0 ≤ s ≤ S _r)
Assured operating distance (S _a)	≤ (0.81 × S _n) mm	IO-Link	✓
Repeat accuracy	≤ 0.3 mm	MTTF (@ 40°C)	1017 y
Hysteresis	3% S _r ≤ Hyst ≤ 15% S _r		
Temperature drift	≤ 10% S _r		
Standard target	21 x 21 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	≤ 20% U _B	Housing material	V4A / 1.4435 / AISI 316L (+ coating)
Output current	≤ 200 mA	Sensing face material	V4A / 1.4435 / AISI 316L (+ coating)
Output voltage drop	≤ 2.0 VDC	Max tightening torque	2 Nm (for M3 screw)
Power consumption (no-load)	≤ 10 mA	Ambient operating temperature	-25...+85°C ¹
Residual current	≤ 0.1 mA	Enclosure rating	IP68 / IP69K
Switching frequency	≤ 15 Hz	Weight (cable/connector)	see page 2
Short-circuit protection	✓	Cable minimum bendind radius	moving: 15 x D; Fixed: 10 x D
Voltage reversal protection	✓	Shock and vibration	IEC 60947-5-2
Cable length max.	< 300 m		

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

CORRECTION FACTORS FOR TARGET OF

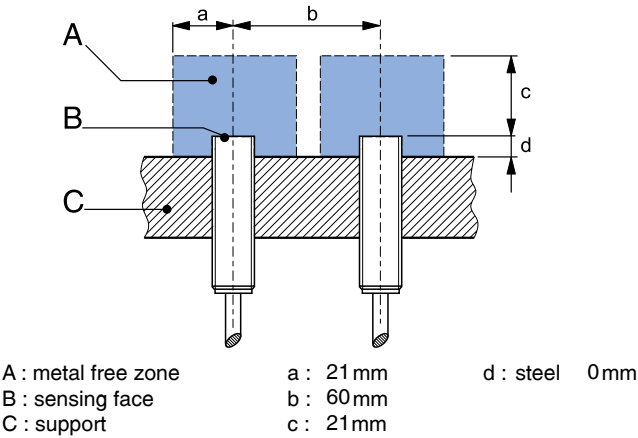
Steel FE 360	1	Copper	0.8	Aluminum	1	Brass	1.2	Stainless Steel V2A 1/2 mm	0.5 / 0.85
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CORRECTION FACTORS FOR EMBEDDABLE MOUNTING IN SUPPORT OF

Steel FE 360	0.9	Aluminum	0.95	Brass	1	Stainless Steel V2A	1.1
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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



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

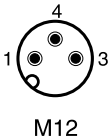
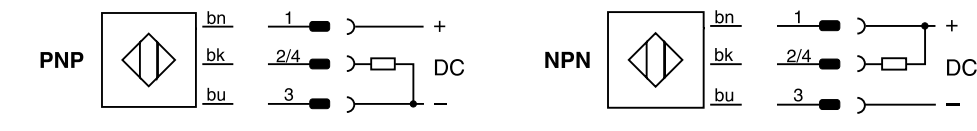
IO-LINK FUNCTIONALITIES

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.

WIRING DIAGRAM



PIN ASSIGNMENT

AVAILABLE TYPES

COATED

Part number	Part reference	Old ref.	Polarity	Connection	Output on pin 2	Output on pin 4 / bk	Weight
330-320-172	DW-AV-703-C23-693	xxx-696	PNP	PUR, 0.2 m + M12 3-pin	-	Normally open (NO) / IO-Link	24 g
320-420-786	DW-AV-701-C23-693	xxx-696	NPN	PUR, 0.2 m + M12 3-pin	-	Normally open (NO)	24 g

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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