CONTRINEX

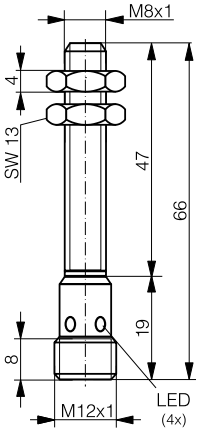
INDUCTIVE SENSOR
WELD-IMMUNE
DW-Ax-62x-M8-6xx

HOUSING	OPERATING DISTANCE	MOUNTING
M8	2 mm	embeddable

- ✓ High performance anti-spatter coating
- ✓ Magnetic field resistant in welding applications
- ✓ Exceptional price-performance ratio
- ✓ High repeatability







DW-AS-623-M8-6xx

DETECTION DATA		INTERFACE	
Rated operating distance (S_n)	2 mm	Indicator LED, yellow	Sensing state ($0 \le s \le S_r$)
Assured operating distance (S_a)	$\le$ (0.81 x S_n) mm	IO-Link	No IO-Link
Repeat accuracy	$\le$ 0.1 mm	MTTF (@40°C)	1017 y
Hysteresis	3% $S_r \le$ Hyst $\le$ 15% S_r		
Temperature drift	$\le$ 10% S_r		
Standard target	8 x 8 x 1 mm³, FE360		

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

ELECTRICAL DATA		MECHANICAL DATA	
Supply voltage range (U_B)	10…30 VDC	Mounting	Embeddable
Residual ripple	$\le$ 20% U_B	Housing material	V2A / 1.4305 / AISI 303 (+ coating)
Output current	$\le$ 200 mA	Sensing face material	PEEK
Output voltage drop	$\le$ 2.0 VDC	Max tightening torque	8 Nm
Power consumption (no-load)	$\le$ 10 mA	Ambient operating temperature	-25…+70°C[1]
Residual current	$\le$ 0.1 mA	Enclosure rating	IP67
Switching frequency	$\le$ 15 Hz	Weight (cable / connector)	see page 2
Short-circuit protection	✓	Shock and vibration	IEC 60947-5-2
Voltage reversal protection	✓		
Cable length max.	$\le$ 300 m		

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

[1]Maximum temperature according to UL: 70°C.

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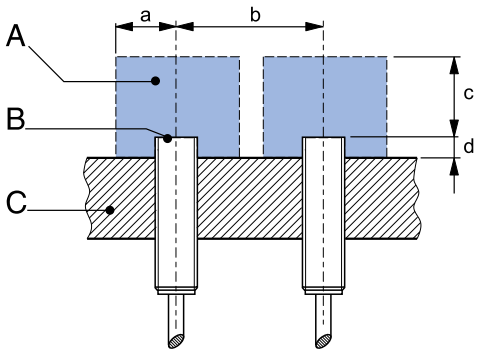
Route du Pâquier 3 – P.O. Box – CH 1720 Corminboeuf – Switzerland – **Tel:** +41 26 460 46 46
Fax: +41 26 460 46 40 – **Internet:** www.contrinex.com – **E-mail:** info@contrinex.com

CORRECTION FACTORS

Steel FE 360	**1**	Copper	**1.1**	Aluminum	**1.2**	Brass	**1.5**	Stainless Steel V2A	**0.1**

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

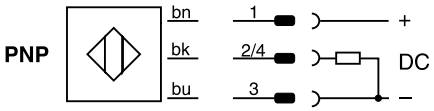


A : metal free zone
B : sensing face
C : support

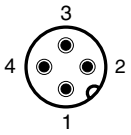
a : 5 mm
b : 20 mm
c : 6 mm
d : steel 0 mm

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

WIRING DIAGRAM



PIN ASSIGNMENT



M12

AVAILABLE TYPES

UNCOATED

Part number	Part reference	Old ref.	Polarity	Connection	Output on pin 2	Output on pin 4 / bk	Weight
320-420-788	DW-AS-623-M8-673	xxx-694	PNP	M12 4-pin	–	Normally open (NO)	9.8 g

COATED

Part number	Part reference	Old ref.	Polarity	Connection	Output on pin 2	Output on pin 4 / bk	Weight
320-420-789	DW-AS-623-M8-693	xxx-697	PNP	M12 4-pin	–	Normally open (NO)	9.8 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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