

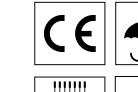
OPERATING DISTANCE

6 mm

INDUCTIVE SENSOR WELD-IMMUNE DW-Ax-70x-M12-6xx

✓ Anti-spatter coating ✓ Magnetic-field immunity: medium frequency \leq 15 kA 50 Hz fields \leq 40 mT

- ✓ Robust full-metal sensor, impact resistant
- \checkmark Long operating distance
- Factor 1 on Fe and Al \checkmark



ASIC

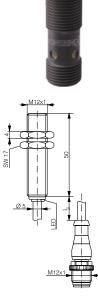






HOUSING

M12



MOUNTING

Embeddable

DW-AV-70x-M12-6xx

DETECTION DATA

DW-AS-70x-M12-6xx

Rated operating distance (S _n)	6 mm	Indicator LED, yellow	Sensing state ($0 \le s \le S_r$)
Assured operating distance (S _a)	\leq (0.81 x S _n) mm	IO-Link	×
Repeat accuracy	\leq 0.3 mm	MTTF (@40°C)	1017 y
Hysteresis	3% S _r ≤ Hyst ≤ 15% S _r		
Temperature drift	\leq 10% S _r		
Standard target	18 x 18 x 1 mm ³ , FE360		
Note: $0.9S_n \le S_r \le 1.1S_n$.			

INTERFACE

MECHANICAL DATA

ELECTRICAL DATA

Supply voltage range (U _B)	1030 VDC	Mounting	Embeddable
Residual ripple	\leq 20% U _B	Housing material	V2A / 1.4305 / AISI 303 (+ coating)
Output current	≤ 200 mA	Sensing face material	V2A / 1.4305 / AISI 303 (+ coating)
Output voltage drop	\leq 2.0 VDC	Max tightening torque	20 Nm
Power consumption (no-load)	≤ 10 mA	Ambient operating temperature	-25+85°C1
Residual current	≤ 0.1 mA	Enclosure rating	IP68 / IP69K
Switching frequency	≤ 15 Hz	Weight (cable/connector)	see page 2
Short-circuit protection	\checkmark	Shock and vibration	IEC 60947-5-2 / 7.4
Voltage reversal protection	\checkmark		
Cable length max.	≤ 300 m		

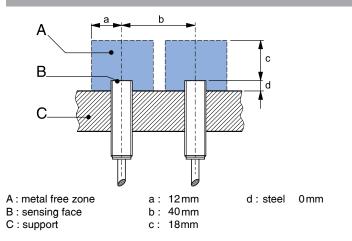
¹Maximum temperature according to UL: 70°C.

Note: all data measured according to IEC 60947-5-2 standard with U_{_B}=20\ldots30VDC, T_{_A}=23^{\circ}C\pm5^{\circ}C.

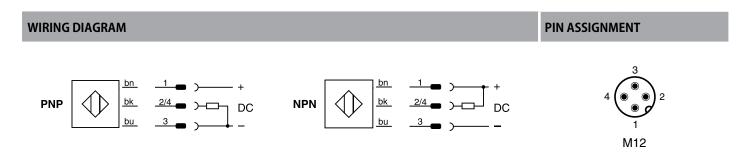
CORRECTION FACTORS FOR TARGET OF									
Steel FE 360	1	Copper	1	Aluminum	1.2	Brass	1.4	Stainless Steel V2A 1/2 mm	0.2 / 0.7
CORRECTION FACTORS FOR EMBEDDABLE MOUNTING IN SUPPORT OF									
Steel FE 360		0.8	Aluminum	0.85	Brass	0	.65	Stainless Steel V2A	0.8

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 $S_{n,AI} = S_n \times CF_{AI}$. In case of embeddable mounting, the distance is multiplied by the additional correction factor of the support, thus $S_{n,AI} = S_n \times CF_{AI} \times CF_{AI}$.

INSTALLATION CONDITIONS



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



AVAILABLE TYPES

UNCOATED						
Part number	Part reference	Polarity	Connection	Output on pin 2	Output on pin 4 / bk	Weight
320-420-561	DW-AS-703-M12-673	PNP	M12 4-pin	-	Normally open (NO)	25 g
320-420-762	DW-AV-701-M12-692	NPN	PUR, 0.2 m + M12 4-pin	-	Normally open (NO)	42 g
COATED						
Part number	Part reference	Polarity	Connection	Output on pin 2	Output on pin 4 / bk	Weight
		-		· · · · ·	The second secon	
320-420-781	DW-AS-703-M12-697	PNP	M12 4-pin	-	Normally open (NO)	25 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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DW-Ax-70x-M12-6xx_Rev 1_22.11.2019_DW-TGF