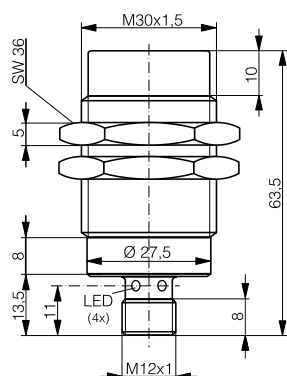
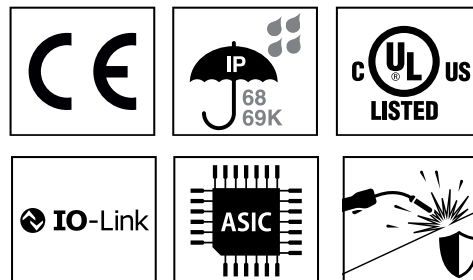




INDUCTIVE SENSOR WELD-IMMUNE DW-Ax-71x-M30-6xx

HOUSING	OPERATING DISTANCE	MOUNTING		
M30	40 mm	Non-Embeddable	✓ Anti-spatter coating ✓ Magnetic-field immunity: medium frequency $\leq 15 \text{ kA}^*$ 50 Hz fields $\leq 40 \text{ mT}$	✓ Robust full-metal sensor, impact resistant ✓ Long operating distance ✓ Factor 1 on Fe and Al



DW-Ax-71x-M30-6xx

*The distance to the welding point must be $> 50 \text{ mm}$

DETECTION DATA		INTERFACE	
Rated operating distance (S_n)	40 mm	Indicator LED, yellow	Sensing state ($0 \leq s \leq S_n$)
Assured operating distance (S_a)	$\leq (0.81 \times S_n) \text{ mm}$	IO-Link	✓
Repeat accuracy	$\leq 1.4 \text{ mm}$	MTTF (@40°C)	1028 y
Hysteresis	$3\% S_r \leq \text{Hyst} \leq 15\% S_r$		
Temperature drift	$\leq 10\% S_r$		
Standard target	48 x 48 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)	15...30 VDC	Mounting	Embeddable
Residual ripple	$\leq 20\% U_B$	Housing material	V2A / 1.4305 / AISI 303 (+ coating)
Output current	$\leq 200 \text{ mA}$	Sensing face material	V2A / 1.4305 / AISI 303 (+ coating)
Output voltage drop	$\leq 2.0 \text{ VDC}$	Max tightening torque	150 Nm
Power consumption (no-load)	$\leq 10 \text{ mA}$	Ambient operating temperature	-25...+85°C ¹
Residual current	$\leq 0.1 \text{ mA}$	Enclosure rating	IP68 / IP69K
Switching frequency	$\leq 15 \text{ Hz}$	Weight (cable/connector)	see page 2
Short-circuit protection	✓	Shock and vibration	IEC 60947-5-2
Voltage reversal protection	✓		
Cable length max.	$\leq 300 \text{ m}$		

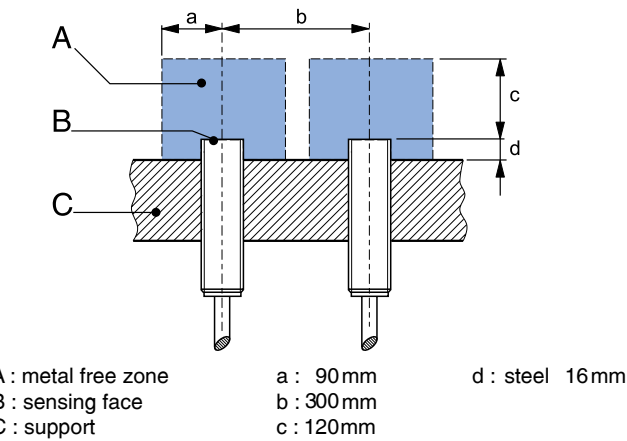
¹Maximum temperature according to UL: 70°C.

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

CORRECTION FACTORS FOR TARGET OF

Steel FE 360	1	Copper	0.8	Aluminum	1	Brass	1.2	Stainless Steel V2A 1/2 mm	0.2 / 0.6
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INSTALLATION CONDITIONS



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

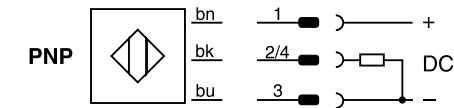
IO-LINK FUNCTIONALITIES

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

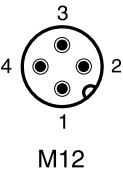


IODD files may be downloaded from
www.contrinex.com/product-range/inductive-sensors/.
Select the product name to display the product page with corresponding downloads.
Alternatively, just click/scan the QR code on the left.

WIRING DIAGRAM



PIN ASSIGNMENT



AVAILABLE TYPES

Part number	Part reference	Old ref.	Polarity	Connection	Output on pin 2	Output on pin 4 / bk	Weight
330-320-213	DW-AS-713-M30-693	-	PNP	M12 4-pin	-	Normally open (NO) / IO-Link	137 g

COMPATIBLE WITH MOUNTING BRACKETS

Part number	Part reference
606-000-025	ASU-0061-300

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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