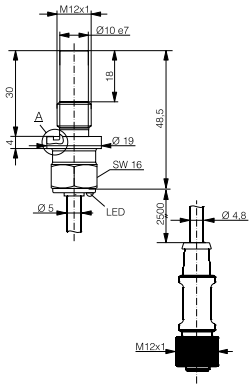
CONTRINEX

INDUCTIVE SENSOR
HIGH PRESSURE
DW-Ax-70x-P12G

HOUSING	OPERATING DISTANCE	MOUNTING
M12	1.5 mm	Embeddable

- ✓Resistant up to 500 bar
- ✓Peaks ≤ 800 bar
- ✓One-piece housing in stainless steel V4A
- ✓Factor 1 on Fe and Al
- ✓Corrosion resistant
- ✓Gas tight, IP68 and IP69K
- ✓IO-Link v1.1



DW-AV-70x-P12G-276

DETECTION DATA

Rated operating distance (S_n)	1.5 mm
Assured operating distance (S_a)	≤ (0.81 x S_n) mm
Repeat accuracy	≤ 0.06 mm
Hysteresis	3% S_r ≤ Hyst ≤ 15% S_r
Temperature drift	≤ 10% S_r
Standard target	10 x 10 x 1 mm³, FE360

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

INTERFACE

Indicator LED, yellow	Sensing state ($0 \leq s \leq 0.8\ S_r$)
Indicator LED, yellow, blinking	Sensing state ($0.8\ S_r < s \leq S_r$)
IO-Link	✓
MTTF (@40°C)	948 y

ELECTRICAL DATA

Supply voltage range (U_B)	10...30 VDC
Residual ripple	≤ 20% U_B
Output current	≤ 200 mA
Output voltage drop	≤ 2.0 VDC
Power consumption (no-load)	≤ 10 mA
Residual current	≤ 0.1 mA
Switching frequency	≤ 850 Hz
Short-circuit protection	✓
Voltage reversal protection	✓
Cable length max.	≤ 300 m

MECHANICAL DATA

Operating pressure	≤ 500 bar
Peak pressure	≤ 800 bar
Mounting	Embeddable
Housing material	V4A / 1.4435 / AISI 316L
Sensing face material	V4A / 1.4435 / AISI 316L
Max tightening torque	50 Nm
Ambient operating temperature	-25...+85°C[1]
Enclosure rating	IP68 / IP69K
Weight (cable/connector)	see page 2
Shock and vibration	IEC 60947-5-2 / 7.4

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

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

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CORRECTION FACTORS FOR TARGET OF

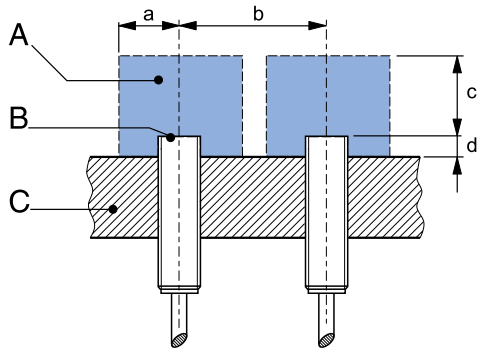
Steel FE 360	**1**	Copper	**0.9**	Aluminum	**1**	Brass	**1.6**	Stainless Steel V2A 1/2 mm	**0 / 0.05**

CORRECTION FACTORS FOR EMBEDDABLE MOUNTING IN SUPPORT OF

Steel FE 360	**0.95**	Aluminum	**0.6**	Brass	**0.75**	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 $S_{n,Al} = S_n \times CF_{Al}$. 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 : 30 mm
c : 5 mm

d : steel 0 mm

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

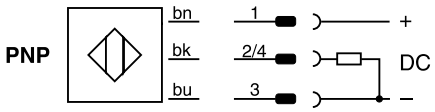
IODD files may be downloaded from

www.contrinex.com/product-range/inductive-sensors/.

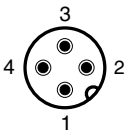
Select the product name to display the product page with corresponding downloads.

Alternatively, just click/scan the QR code on the left.

WIRING DIAGRAM



PIN ASSIGNMENT



M12

AVAILABLE TYPES

Part number	Part reference	Polarity	Connection	Output on pin 2	Output on pin 4 / bk	Weight
330-320-139	DW-AV-703-P12G-276	PNP	PUR, 0.2 m + M12 4-pin	-	Normally open (NO) / IO-Link	50 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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