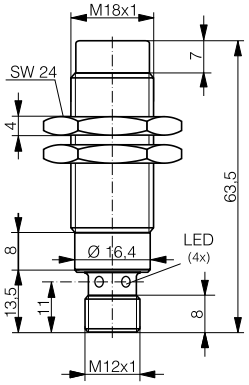
CONTRINEX

INDUCTIVE SENSOR
EXTREME
DW-Ax-71x-M18-303

HOUSING	OPERATING DISTANCE	MOUNTING
M18	8 mm	Non-embeddable

- ✓ One-piece housing in stainless steel V2A
- ✓ Long operating distance
- ✓ Factor 1 on Fe and Al
- ✓ Extremely robust
- ✓ Water resistant
- ✓ IP68/IP69K
- ✓ IO-Link v1.1





DW-AS-713-M18-303

DETECTION DATA

Rated operating distance (S_n)	8 mm
Assured operating distance (S_a)	≤ (0.81 x S_n) mm
Repeat accuracy	≤ 0.6 mm
Hysteresis	3% S_r ≤ Hyst ≤ 15% S_r
Temperature drift	≤ 10% S_r
Standard target	24 x 24 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)	1028 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	≤ 400 Hz
Short-circuit protection	✓
Voltage reversal protection	✓
Cable length max.	≤ 300 m

MECHANICAL DATA

Mounting	Non-embeddable
Housing material	V2A / 1.4305 / AISI 303
Sensing face material	V2A / 1.4305 / AISI 303
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

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

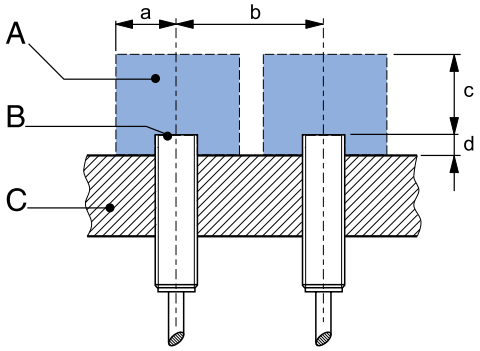
Note: all data measured according to IEC 60947-5-2 standard with U_B=20 … 30VDC, T_A=23°C ± 5°C.

CONTRINEX AG Industrial Electronics
Route du Pâquis 5 – 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 FOR TARGET OF

Steel FE 360	**1**	Copper	**0.8**	Aluminum	**1**	Brass	**1.3**	Stainless Steel V2A 1/2 mm	**0.4 / 0.8**

INSTALLATION CONDITIONS



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

a : 16 mm
b : 48 mm
c : 25 mm

d : steel 12 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

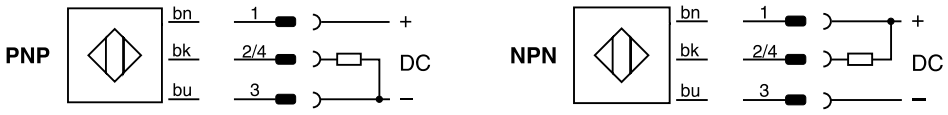
IODD files may be downloaded from

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

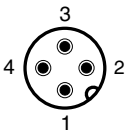
Select the product name to display the product page with corresponding downloads.

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
320-420-443	DW-AS-711-M18-303	NPN	M12 4-pin	-	Normally open (NO)	53 g
330-320-068	DW-AS-713-M18-303	PNP	M12 4-pin	-	Normally open (NO) / IO-Link	53 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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