

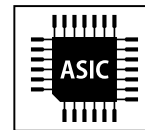


INDUCTIVE SENSOR

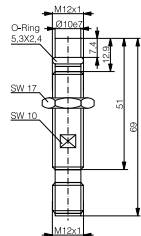
High pressure

DW-AS-52x-P12

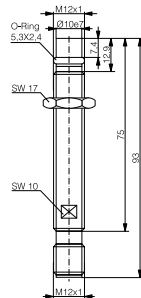
HOUSING	OPERATING DISTANCE	MOUNTING	✓ Resistant up to 500 bar ✓ Exceptionally long life ✓ Long operating distance ✓ Large temperature range	
M12	2.5 mm	Embeddable	✓ Peaks ≤ 1000 bar ✓ Ceramic sensing face ✓ Gas tight, IP68 ✓ IO-Link v1.1	



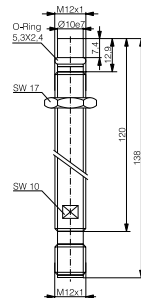
HM 2004



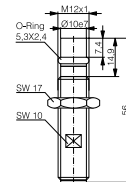
DW-AS-52x-P12



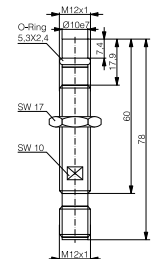
DW-AS-52x-P12-621



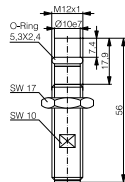
DW-AS-52x-P12-622



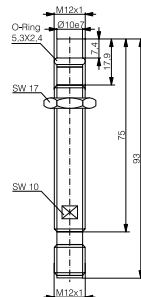
DW-AS-52x-P12-624



DW-AS-52x-P12-627



DW-AS-52x-P12-630



DW-AS-52x-P12-635

DETECTION DATA		INTERFACE	
Rated operating distance (S_n)	2.5 mm	Indicator LED, yellow	✗
Assured operating distance (S_a)	$\leq (0.81 \times S_n) \text{ mm } (-25 \dots +70^\circ\text{C})$	Indicator LED, yellow, blinking	✗
Repeat accuracy	$\leq 0.1 \text{ mm}$	IO-Link	✓
Hysteresis	$3\% S_n \leq \text{Hyst} \leq 15\% S_n$	MTTF (@40°C)	949 y
Temperature drift	$\leq 10\% (-25 \dots +70^\circ\text{C})$ $\leq 15\% (+70 \dots +100^\circ\text{C})$		
Standard target	10 x 10 x 1 mm ³ , FE360		

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

ELECTRICAL DATA		MECHANICAL DATA	
Supply voltage range (U_B)	10...30 VDC	Operating pressure	≤ 500 bar
Residual ripple	≤ 20% U_B	Peak pressure	≤ 1000 bar
Output current	≤ 200 mA	Vacuum down to	10 ⁻⁸ Torr
Output voltage drop	≤ 2.0 VDC	Mounting	Embeddable
Power consumption (no-load)	≤ 10 mA	Housing material	Stainless-steel DIN 1.4305 / AISI 303
Residual current	≤ 0.1 mA	Sensing face material	ZrO ²
Switching frequency	≤ 600 Hz	Max tightening torque	40 Nm
Short-circuit protection	✓	Ambient operating temperature	-25...+100°C ¹
Voltage reversal protection	✓	Enclosure rating	IP 68
Cable length max.	≤ 300 m	Weight (cable / connector)	see page 3
		Shock and vibration	IEC 60947-5-2 / 7.4

¹Maximum temperature according to UL: 70°C.

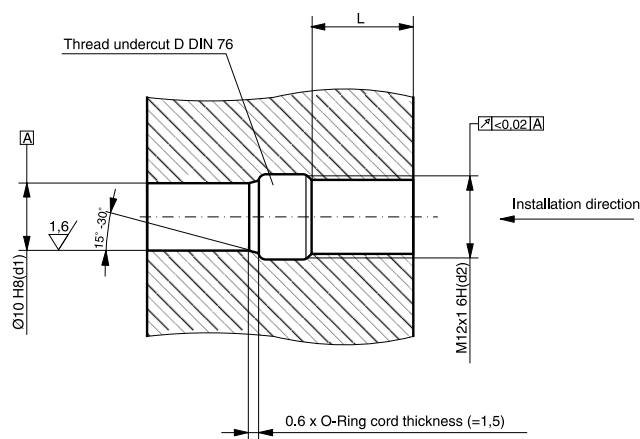
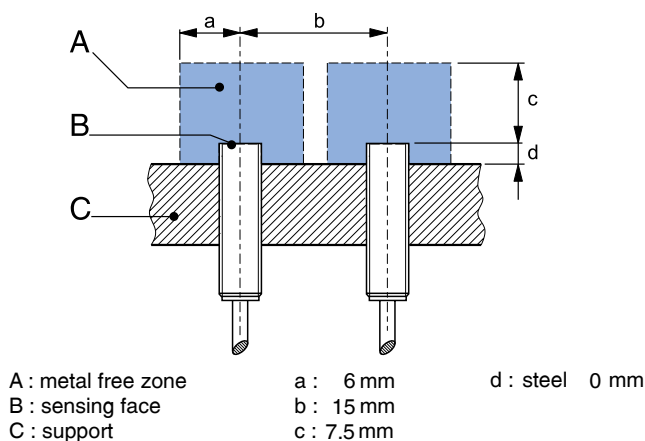
Note: all data measured according to IEC 60947-5-2 standard with $U_B = 20 \dots 30 \text{ VDC}$, $T_A = 23^\circ\text{C} \pm 5^\circ\text{C}$.

CORRECTION FACTORS

Steel FE 360	1	Copper	0.27	Aluminum	0.32	Brass	0.45	Stainless S. V2A 1 / 2 mm	0.75
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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



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

L : recommended installation depth: $L \geq 0.8 \times d2$

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



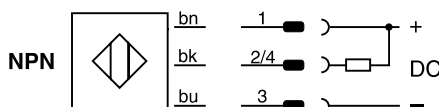
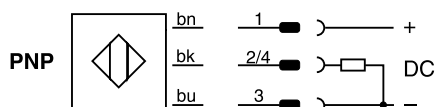
IODD files may be downloaded from

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

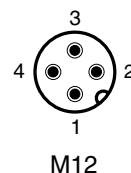
Select the product name to display the product page with corresponding downloads.

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

WIRING DIAGRAM



PIN ASSIGNMENT



AVAILABLE TYPES

Part number	Part reference	Polarity	Connection	Output on pin 2	Output on pin 4 / bk	Weight
330-020-208	DW-AS-523-P12	PNP	M12 4-pin	-	Normally open (NO) / IO-Link	31 g
330-020-209	DW-AS-523-P12-621	PNP	M12 4-pin	-	Normally open (NO) / IO-Link	42 g
330-020-210	DW-AS-523-P12-622	PNP	M12 4-pin	-	Normally open (NO) / IO-Link	50 g
330-020-211	DW-AS-523-P12-624	PNP	M12 4-pin	-	Normally open (NO) / IO-Link	27 g
330-020-212	DW-AS-523-P12-627	PNP	M12 4-pin	-	Normally open (NO) / IO-Link	35 g
330-020-213	DW-AS-523-P12-630	PNP	M12 4-pin	-	Normally open (NO) / IO-Link	27 g
330-020-214	DW-AS-523-P12-635	PNP	M12 4-pin	-	Normally open (NO) / IO-Link	42 g
330-020-215	DW-AS-524-P12	PNP	M12 4-pin	Normally close (NC)	-	31 g
330-020-216	DW-AS-524-P12-621	PNP	M12 4-pin	Normally close (NC)	-	42 g
330-020-217	DW-AS-524-P12-622	PNP	M12 4-pin	Normally close (NC)	-	50 g
330-020-218	DW-AS-524-P12-624	PNP	M12 4-pin	Normally close (NC)	-	27 g
330-020-219	DW-AS-524-P12-627	PNP	M12 4-pin	Normally close (NC)	-	35 g
330-020-220	DW-AS-524-P12-630	PNP	M12 4-pin	Normally close (NC)	-	27 g
330-020-221	DW-AS-524-P12-635	PNP	M12 4-pin	Normally close (NC)	-	42 g
330-020-243	DW-AS-521-P12	NPN	M12 4-pin	-	Normally open (NO)	31 g
330-020-244	DW-AS-521-P12-621	NPN	M12 4-pin	-	Normally open (NO)	42 g
330-020-245	DW-AS-521-P12-622	NPN	M12 4-pin	-	Normally open (NO)	50 g
330-020-246	DW-AS-521-P12-624	NPN	M12 4-pin	-	Normally open (NO)	27 g
330-020-247	DW-AS-521-P12-627	NPN	M12 4-pin	-	Normally open (NO)	35 g
330-020-248	DW-AS-521-P12-630	NPN	M12 4-pin	-	Normally open (NO)	27 g
330-020-249	DW-AS-521-P12-635	NPN	M12 4-pin	-	Normally open (NO)	42 g
330-020-250	DW-AS-522-P12	NPN	M12 4-pin	Normally close (NC)	-	31 g
330-020-251	DW-AS-522-P12-621	NPN	M12 4-pin	Normally close (NC)	-	42 g
330-020-252	DW-AS-522-P12-622	NPN	M12 4-pin	Normally close (NC)	-	50 g
330-020-253	DW-AS-522-P12-624	NPN	M12 4-pin	Normally close (NC)	-	27 g
330-020-254	DW-AS-522-P12-627	NPN	M12 4-pin	Normally close (NC)	-	35 g
330-020-255	DW-AS-522-P12-630	NPN	M12 4-pin	Normally close (NC)	-	27 g
330-020-256	DW-AS-522-P12-635	NPN	M12 4-pin	Normally close (NC)	-	42 g

Note: part reference may include additional suffix to indicate a revision version or special version. Further information is available on request.



Nyckelvägen 7
142 50 SKOGÅS, Sweden

Tel: +46 (0) 771 02 20
info@hemomatik.se

www.hemomatik.se

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CONTRINEX AG Industrial Electronics

Route du Pâqui 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

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