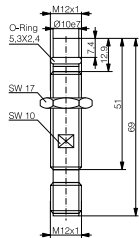
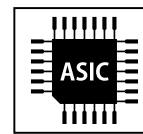
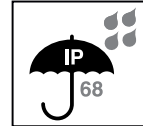
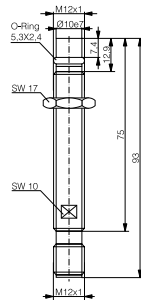


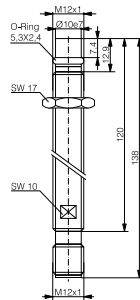
HOUSING	OPERATING DISTANCE	MOUNTING	✓ Resistant up to 500 bar	✓ Peaks ≤ 1000 bar
M12	2.5 mm	Embeddable	✓ Exceptionally long life	✓ Ceramic sensing face
			✓ Long operating distance	✓ Gas tight, IP68
			✓ Large temperature range	✓ IO-Link v1.1



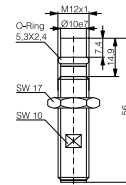
DW-AS-52x-P12



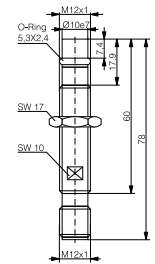
DW-AS-52x-P12-621



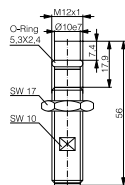
DW-AS-52x-P12-622



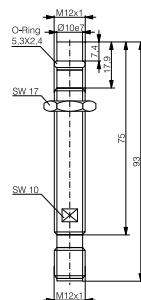
DW-AS-52x-P12-624



DW-AS-52x-P12-627



DW-AS-52x-P12-630



DW-AS-52x-P12-635

DETECTION DATA		INTERFACE	
Rated operating distance (S <sub>n</sub> )	2.5 mm	Indicator LED, yellow	✗
Assured operating distance (S <sub>a</sub> )	≤ (0.81 x S <sub>n</sub> ) mm (-25 ... +70 °C)	Indicator LED, yellow, blinking	✗
Repeat accuracy	≤ 0.1 mm	IO-Link	✓
Hysteresis	3% S <sub>n</sub> ≤ Hyst ≤ 15% S <sub>n</sub>	MTTF (@40°C)	949 y
Temperature drift	≤ 10 % (-25 ... +70°C) ≤ 15 % (+70 ... +100°C)		
Standard target	10 x 10 x 1mm <sup>3</sup> , FE360		

Note: 0.9S<sub>n</sub> ≤ S<sub>a</sub> ≤ 1.1S<sub>n</sub>.

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 <sup>-8</sup> 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 <sup>2</sup>
Switching frequency	≤ 600 Hz	Max tightening torque	40 Nm
Short-circuit protection	✓	Ambient operating temperature	-25...+100°C <sup>1</sup>
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

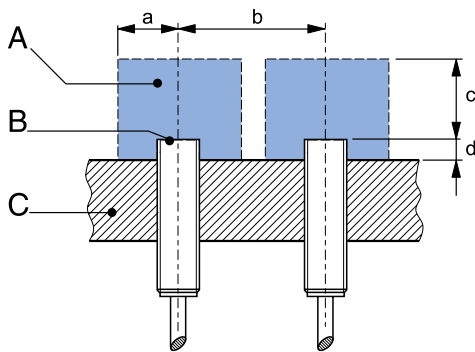
<sup>1</sup>Maximum temperature according to UL: 70°C.

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

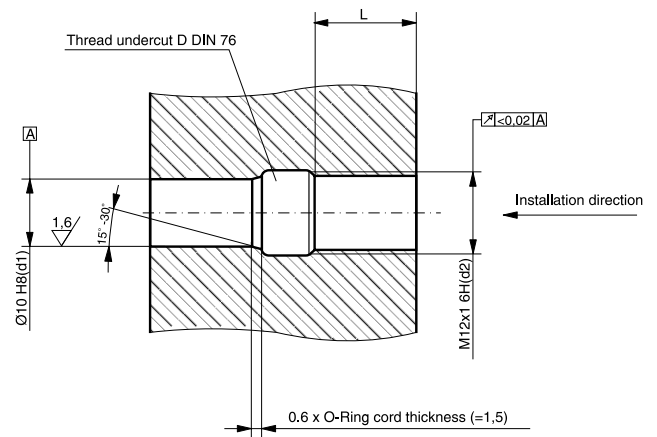
CORRECTION FACTORS									
Steel FE 360	1	Copper	0.27	Aluminum	0.32	Brass	0.45	Stainless S. V2A 1 / 2 mm	0.75

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      a : 6 mm      d : steel 0 mm  
 B : sensing face      b : 15 mm  
 C : support      c : 7.5 mm



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



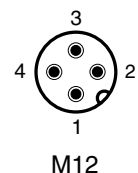
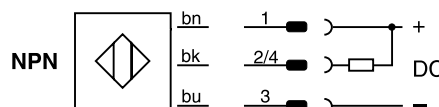
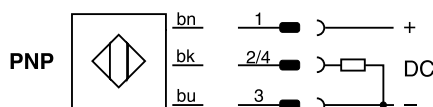
IO-Link files may be downloaded from

[www.contrinex.com/product-range/inductive-sensors/](http://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.

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