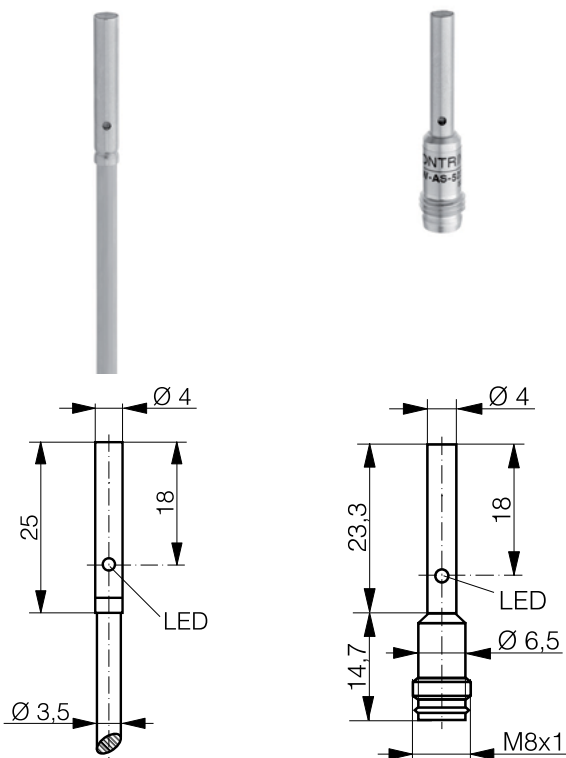
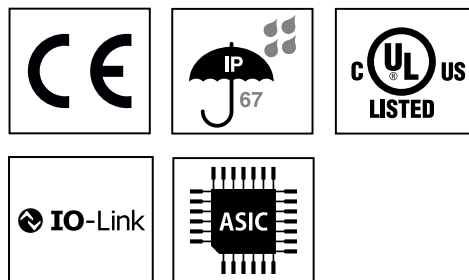


HOUSING	OPERATING DISTANCE	MOUNTING		
Ø 4	2.5 mm	Quasi-embeddable	✓ Miniature device Ø 4 mm ✓ Long operating distance ✓ Exceptional price-performance ratio	✓ Excellent accuracy ✓ IP67 ✓ IO-Link v1.1



DW-AD-50x-04

DW-AS-50x-04



HM 2004

DETECTION DATA		INTERFACE	
Rated operating distance (S_n)	2.5 mm	Indicator LED, yellow	Sensing state ($0 \leq s \leq 0.8 S_r$)
Assured operating distance (S_a)	$\leq (0.81 \times S_n)$ mm	Indicator LED, yellow, blinking	Sensing state ($0.8 S_r < s \leq S_r$)
Repeat accuracy	≤ 0.03 mm	IO-Link	✓
Hysteresis	$3\% S_r \leq \text{Hyst} \leq 15\% S_r$	MTTF (@40°C)	1032 y
Temperature drift	$\leq 10\% S_r$		
Standard target	7.5 x 7.5 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	Mounting	Quasi-embeddable
Residual ripple	$\leq 20\% U_B$	Housing material	Nickel silver
Output current	≤ 200 mA	Sensing face material	PPE
Output voltage drop	≤ 2.0 VDC	Max tightening torque	0.15 Nm (with M3 screw)
Power consumption (no-load)	≤ 10 mA	Ambient operating temperature	-25...+70°C ¹
Residual current	≤ 0.1 mA	Enclosure rating	IP 67
Switching frequency	≤ 800 Hz	Weight (cable / connector)	see page 2
Short-circuit protection	✓	Shock and vibration	IEC 60947-5-2 / 7.4
Voltage reversal protection	✓		
Cable length max.	≤ 100 m		

¹Maximum temperature according to UL: 70°C.

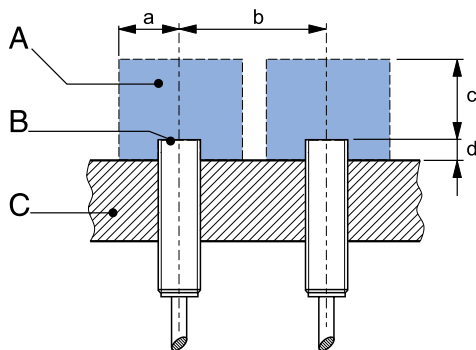
Note: all data measured according to IEC 60947-5-2 standard with $U_B = 20 \dots 30$ VDC, $T_A = 23^\circ\text{C} \pm 5^\circ\text{C}$.

CORRECTION FACTORS

Steel FE 360	1	Copper	0.25	Aluminum	0.28	Brass	0.36	Stainless S. V2A 1 / 2 mm	0.6
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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



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

a : 4.5 mm
b : 10 mm
c : 7.5 mm

d : steel 0.5 mm
aluminium 2.5 mm

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

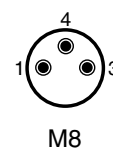
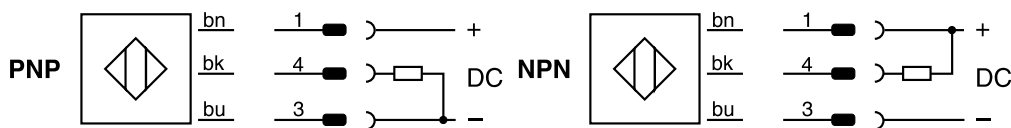
www.contrinex.com/product-range/inductive-sensors/.

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

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

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

WIRING DIAGRAM



AVAILABLE TYPES

Part number	Part reference	Polarity	Connection	Output on pin 2	Output on pin 4 / bk	Weight
330-020-000	DW-AD-503-04	PNP	PVC, 2 m, 3 wire	-	Normally open (NO) / IO-Link	32 g
330-020-001	DW-AD-504-04	PNP	PVC, 2 m, 3 wire	-	Normally close (NC)	32 g
330-020-002	DW-AD-501-04	NPN	PVC, 2 m, 3 wire	-	Normally open (NO)	32 g
330-020-003	DW-AD-502-04	NPN	PVC, 2 m, 3 wire	-	Normally close (NC)	32 g
330-020-004	DW-AS-503-04	PNP	M8 3-pin	-	Normally open (NO) / IO-Link	4 g
330-020-005	DW-AS-504-04	PNP	M8 3-pin	-	Normally close (NC)	4 g
330-020-006	DW-AS-501-04	NPN	M8 3-pin	-	Normally open (NO)	4 g
330-020-007	DW-AS-502-04	NPN	M8 3-pin	-	Normally close (NC)	4 g



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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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