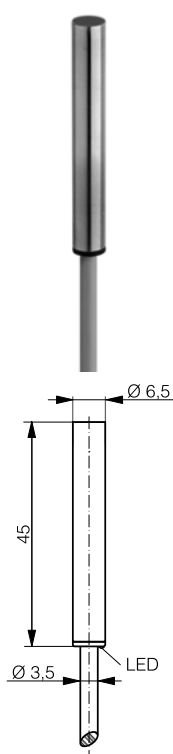
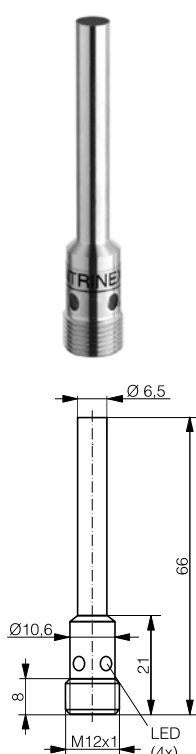


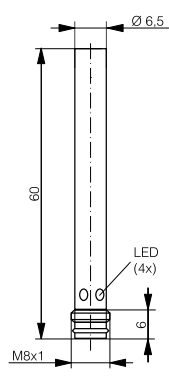
HOUSING	OPERATING DISTANCE	MOUNTING		
Ø 6.5	3 mm	Quasi-embeddable	✓ Long operating distance ✓ Exceptional price-performance ratio ✓ Excellent accuracy	✓ IP 67 ✓ IO-Link v1.1



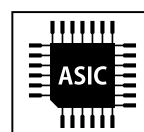
DW-AD-50x-065



DW-AS-50x-065



DW-AS-50x-065-001



DETECTION DATA		INTERFACE	
Rated operating distance (S_n)	3 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	≤ 0.15 mm	IO-Link	✓
Hysteresis	$3\% S_r \leq \text{Hyst} \leq 15\% S_r$	MTTF (@40°C)	1073 y
Temperature drift	$\leq 10\% S_r$		
Standard target	9 x 9 x 1 mm ³ , FE360		

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

ELECTRICAL DATA		MECHANICAL DATA	
Supply voltage range (U_B)	10...30 VDC	Mounting	Quasi-embeddable
Residual ripple	$\leq 20\% U_B$	Housing material	Chrome-plated brass
Output current	≤ 200 mA	Sensing face material	PBTP
Output voltage drop	≤ 2.0 VDC	Max tightening torque	0.3 Nm (with M5 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	≤ 1000 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.	≤ 300 m		

¹Maximum temperature according to UL: 70°C.

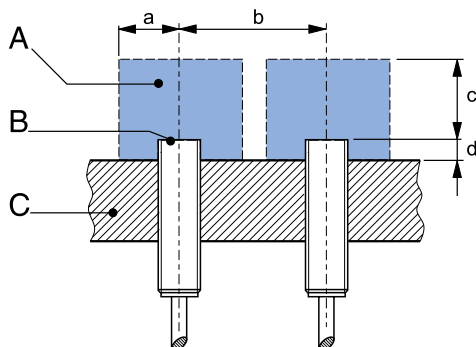
Note: all data measured according to IEC 60947-5-2 standard with $U_B=20\ldots30\text{VDC}$, $T_A=23^\circ\text{C} \pm 5^\circ\text{C}$.

CORRECTION FACTORS

Steel FE 360	1	Copper	0.18	Aluminum	0.26	Brass	0.35	Stainless S. V2A 1 / 2 mm	0.67
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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 : 6 mm
b : 16 mm
c : 9 mm
d : steel 1 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



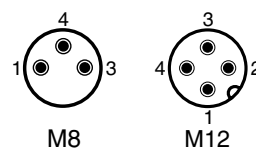
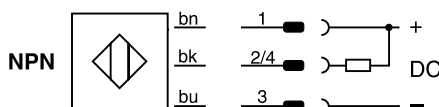
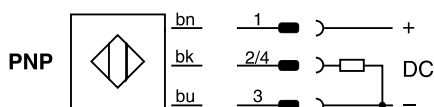
IO-Link files may be downloaded from

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



AVAILABLE TYPES

Part number	Part reference	Polarity	Connection	Output on pin 2	Output on pin 4 / bk	Weight
330-020-323	DW-AD-501-065	NPN	PVC, 2 m, 3 wire	-	Normally open (NO)	36 g
330-020-324	DW-AD-502-065	NPN	PVC, 2 m, 3 wire	-	Normally close (NC)	34 g
330-020-325	DW-AD-503-065	PNP	PVC, 2 m, 3 wire	-	Normally open (NO) / IO-Link	33 g
330-020-329	DW-AD-504-065	PNP	PVC, 2 m, 3 wire	-	Normally close (NC)	34 g
330-020-330	DW-AS-501-065	NPN	M12 4-pin	-	Normally open (NO)	10 g
330-020-331	DW-AS-501-065-001	NPN	M8 3-pin	-	Normally open (NO)	5 g
330-020-332	DW-AS-502-065	NPN	M12 4-pin	Normally close (NC)	-	6 g
330-020-333	DW-AS-502-065-001	NPN	M8 3-pin	-	Normally close (NC)	5 g
330-020-334	DW-AS-503-065	PNP	M12 4-pin	-	Normally open (NO) / IO-Link	10 g
330-020-335	DW-AS-503-065-001	PNP	M8 3-pin	-	Normally open (NO) / IO-Link	5 g
330-020-336	DW-AS-504-065	PNP	M12 4-pin	Normally close (NC)	-	6 g
330-020-337	DW-AS-504-065-001	PNP	M8 3-pin	-	Normally close (NC)	5 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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