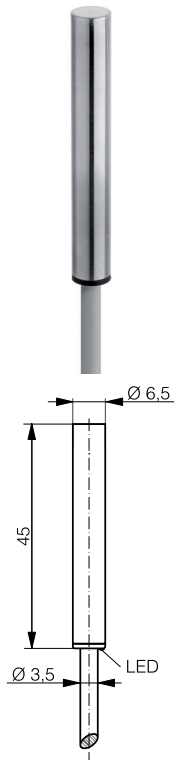
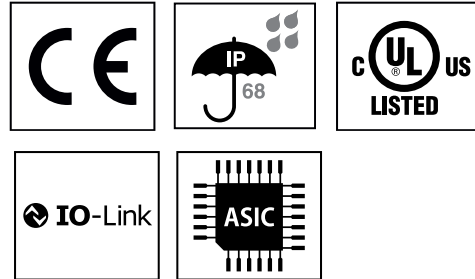


HOUSING	OPERATING DISTANCE	MOUNTING	✓ Resistant up to 20 bar ✓ Ceramic sensing face ✓ Long operating distance ✓ Excellent accuracy	✓ Exceptional price-performance ratio ✓ Sealed device, IP68 ✓ IO-Link v1.1
Ø 6.5	2.5 mm	Embeddable		



DW-AD-50x-065E



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	≤ 0.15 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: $0.9S_n \leq S_a \leq 1.1S_n$.

ELECTRICAL DATA		MECHANICAL DATA	
Supply voltage range (U_B)	10...30 VDC	Mounting	Embeddable
Residual ripple	$\leq 20\% U_B$	Housing material	Stainless-steel V2A
Output current	≤ 200 mA	Sensing face material	ZrO ₂
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 68
Switching frequency	≤ 1000 Hz	Weight (cable / connector)	see page 2
Short-circuit protection	✓	Shock and vibration	IEC 60947-5-2
Voltage reversal protection	✓		
Cable length max.	≤ 300 m		

¹Maximum temperature according to UL: 70°C.

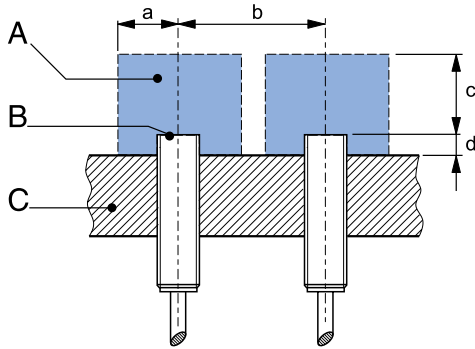
Note: all data measured according to IEC 60947-5-2 standard with $U_B=20 \dots 30$ VDC, $T_A=23^\circ\text{C} \pm 5^\circ\text{C}$.

CORRECTION FACTORS

Steel FE 360	1	Copper	0.19	Aluminum	0.22	Brass	0.35	Stainless S. V2A 1 / 2 mm	0.73
--------------	---	--------	------	----------	------	-------	------	---------------------------	------

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 : 12 mm
 C : support c : 9 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

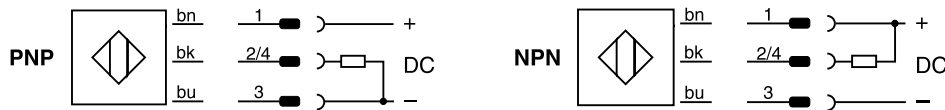
www.contrinex.com/product-range/inductive-sensors/.

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
330-020-338	DW-AD-501-065E	NPN	PUR, 2 m, 3 wire	-	Normally open (NO)	30 g
330-020-339	DW-AD-502-065E	NPN	PUR, 2 m, 3 wire	-	Normally close (NC)	30 g
330-020-340	DW-AD-503-065E	PNP	PUR, 2 m, 3 wire	-	Normally open (NO) / IO-Link	30 g
330-020-341	DW-AD-504-065E	PNP	PUR, 2 m, 3 wire	-	Normally close (NC)	30 g

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

Operators of the products we supply are responsible for compliance with measures for the protection of persons. The use of our equipment in applications where the safety of persons might be at risk is only authorized if the operator observes and implements separate, appropriate and necessary measures for the protection of persons and machines. Terms of delivery and rights to change design reserved.