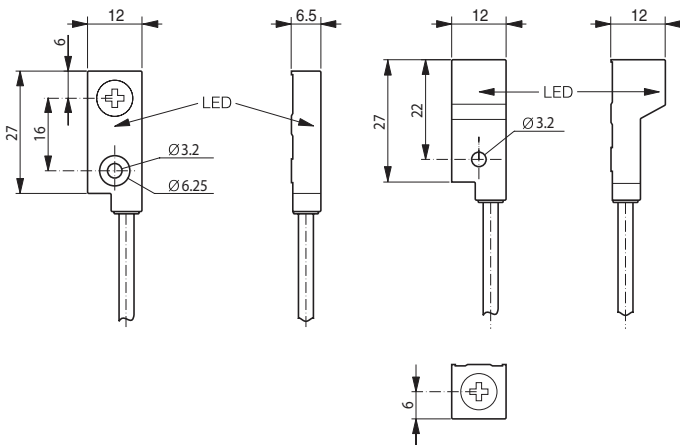
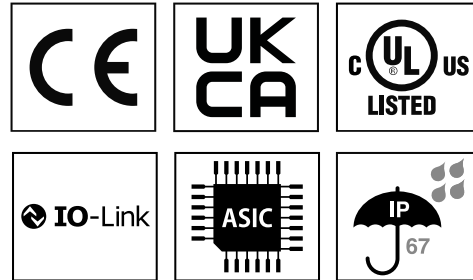
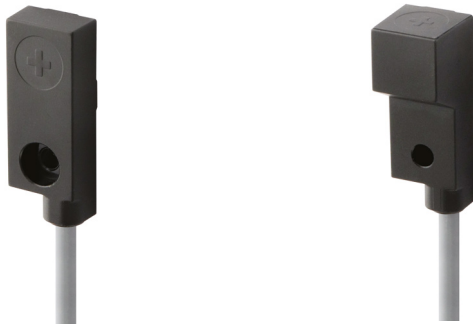
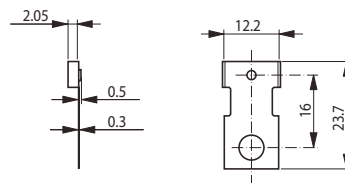


HOUSING	OPERATING DISTANCE	MOUNTING	✓ IP 67 ✓ IO-Link v1.0
C12	4 mm	Non-Embeddable	



DW-AD-61X-C12P

DW-AD-61X-C12P-1523



MOUNTING_PLATE

DETECTION DATA		INTERFACE	
Rated operating distance (S_n)	4 mm	Indicator LED, yellow : ON	Sensing state ($0 < s \leq 0.8S_r$)
Assured operating distance (S_a)	$\leq (0.81 \times S_n)$ mm	Indicator LED, yellow : Blinking	Sensing state ($0.8S_r < s \leq S_r$)
Repeat accuracy	0.2 mm	IO-Link	✓
Hysteresis	$\leq 20\% S_r$	MTTF	1012
Temperature drift	$\leq 10\% S_r$		
Standard target	12 x 12 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	Non-Embeddable
Residual ripple	$\leq 20\% U_B$	Housing material	Polycarbonate
Output current	≤ 200 mA	Sensing face material	Polycarbonate
Output voltage drop	≤ 2.0 V	Max tightening torque	≤ 0.4 Nm (for M3 screw)
Power consumption (no-load)	≤ 10 mA	Ambient temperature operation	-25 to + 70°C ¹
Residual current	≤ 0.1 mA	Enclosure rating	IP 67
Switching frequency	≤ 2000 Hz	Weight (incl. bracket)	33 g
Short-circuit protection	✓	Shock and vibration	IEC 60947-5-2
Voltage reversal protection	✓		
Cable length max.	≤ 2 m		

¹Maximum temperature according to UL: 70°C.

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

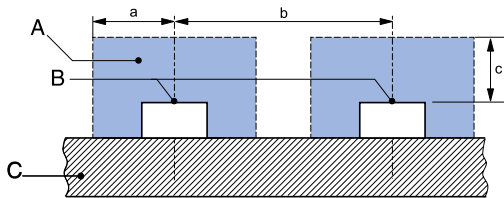
CORRECTION FACTORS

Steel FE 360	1.0	Copper	0.4	Aluminum	0.45	Brass	0.5	Stainless steel V2A	0.75
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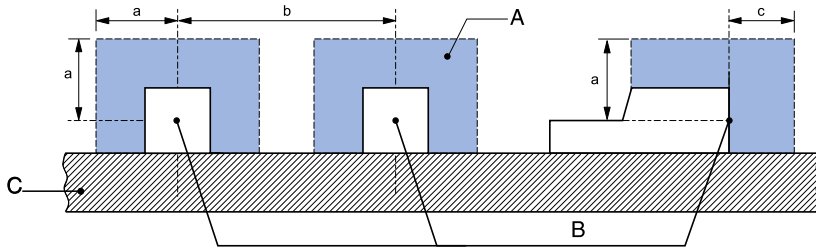
Note: the operating distance of the sensor must be multiplied by the correction factor of the material. For example, the operating distance on Aluminum is $S_{n,Al} = S_n \times CF_{Al}$. In case of embeddable mounting, the distance is multiplied by the additional correction factor of the support, thus $S_{n,Al} = S_n \times CF_{Al} \times CF_{emb,Al}$.

INSTALLATION CONDITION

DW-AD-61X-C12P



DW-AD-61X-C12P-1523



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

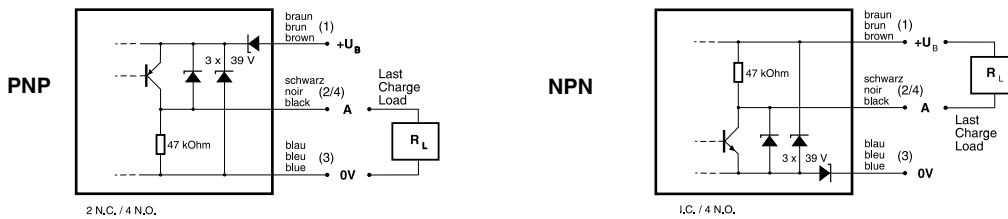
a : 15
 b : 40
 c : 12

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

IO-LINK FUNCTIONALITIES

IO-Link version	1.0
SIO mode	Supported
Process data	Detection 80% S_d & 100% S_f
Baudrate	COM2 (38.4 kBaud)
Special functions	Output timing, event flags, detection counter, actual and maximum sensor temperature

WIRING DIAGRAM



AVAILABLE TYPES

Part number	Part reference	Polarity	Connection	Output on pin 2
320-620-068	DW-AD-611-C12P	NPN	Cable 2 m PVC	N.O.
320-620-065	DW-AD-611-C12P-1523	NPN	Cable 2 m PVC	N.O.
320-620-069	DW-AD-612-C12P	NPN	Cable 2 m PVC	N.C.
320-620-066	DW-AD-612-C12P-1523	NPN	Cable 2 m PVC	N.C.
320-620-070	DW-AD-613-C12P	PNP	Cable 2 m PVC	N.O. (IO-Link)
320-620-067	DW-AD-613-C12P-1523	PNP	Cable 2 m PVC	N.O. (IO-Link)

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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