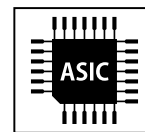
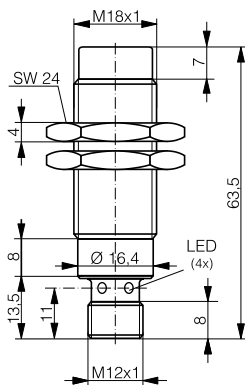


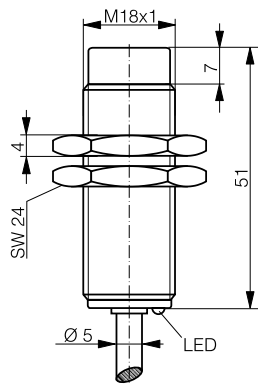
HOUSING	OPERATING DISTANCE	MOUNTING		
M18	20 mm	Non-embeddable	✓ One-piece housing in stainless steel V2A ✓ Long operating distance ✓ Factor 1 on Fe and Al	✓ Extremely robust ✓ Water resistant ✓ IP68/IP69K ✓ IO-Link v1.1



HM 2004



DW-AS-71x-M18-002



DW-AD-71x-M18

DETECTION DATA		INTERFACE	
Rated operating distance (S_n)	20 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	≤ 0.6 mm	IO-Link	✓
Hysteresis	$3\% S_r \leq \text{Hyst} \leq 15\% S_r$	MTTF (@40°C)	1028 y
Temperature drift	$\leq 10\% S_r$		
Standard target	60 x 60 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	V2A / 1.4305 / AISI 303
Output current	≤ 200 mA	Sensing face material	V2A / 1.4305 / AISI 303
Output voltage drop	≤ 2.0 VDC	Max tightening torque	50 Nm
Power consumption (no-load)	≤ 10 mA	Ambient operating temperature	-25...+85°C ¹
Residual current	≤ 0.1 mA	Enclosure rating	IP68 / IP69K
Switching frequency	≤ 200 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		

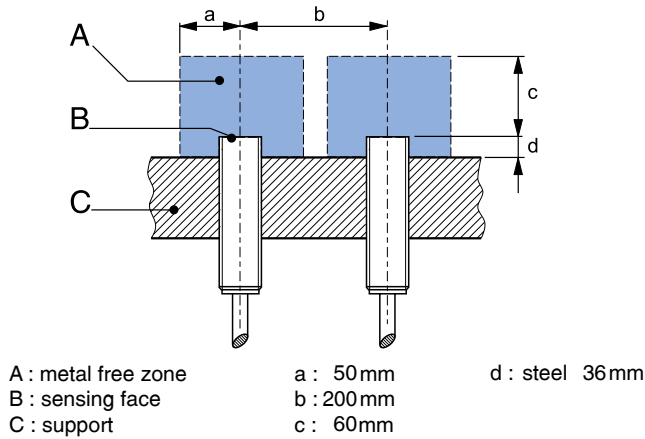
¹Maximum temperature according to UL: 70°C.

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

CORRECTION FACTORS FOR TARGET OF

Steel FE 360	1	Copper	0.9	Aluminum	1	Brass	1.35	Stainless Steel V2A 1/2 mm	0.2 / 0.7
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INSTALLATION CONDITIONS



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



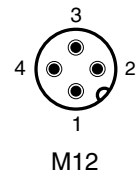
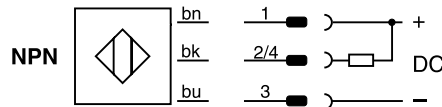
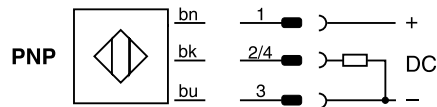
IO-Link files may be downloaded from

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



PIN ASSIGNMENT

AVAILABLE TYPES

Part number	Part reference	Polarity	Connection	Output on pin 2	Output on pin 4 / bk	Weight
320-420-231	DW-AD-711-M18	NPN	PUR, 2 m, 3 wire	-	Normally open (NO)	115 g
320-420-232	DW-AD-712-M18	NPN	PUR, 2 m, 3 wire	Normally close (NC)	-	115 g
330-320-016	DW-AD-713-M18	PNP	PUR, 2 m, 3 wire	-	Normally open (NO) / IO-Link	115 g
320-420-234	DW-AD-714-M18	PNP	PUR, 2 m, 3 wire	Normally close (NC)	-	115 g
320-420-236	DW-AS-711-M18-002	NPN	M12 4-pin	-	Normally open (NO)	53 g
320-420-237	DW-AS-712-M18-002	NPN	M12 4-pin	Normally close (NC)	-	53 g
330-320-017	DW-AS-713-M18-002	PNP	M12 4-pin	-	Normally open (NO) / IO-Link	53 g
320-420-239	DW-AS-714-M18-002	PNP	M12 4-pin	Normally close (NC)	-	53 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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