

INDUCTIVE SENSOR WASHDOWN DW-Lx-70x-M18

P

68 69K

ASIC

LISTED

ECOLAB

US

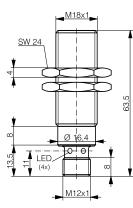
HOUSING M18	OPERATING DISTANCE	MOUNTING Embeddable	 ✓ One-piece housing in stainless steel V4A ✓ Robust and food-safe ✓ Corrosion resistant 	 ✓ IP68 and IP69K, Ecolab ✓ Long operating distance ✓ Factor 1 on Fe and Al ✓ IO-Link v1.1 	
¢.		concentration of			

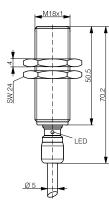
CE

OIO-Link









DW-LD-70x-M18

DW-LS-70x-M18-002

DETECTION DATA

Rated operating distance (S _n)	10 mm	Indicator LED, yellow	Sensing state (0 \leq s \leq 0.8 S _r)
Assured operating distance (S _a)	\leq (0.81 x S _n) mm	Indicator LED, yellow, blinking	Sensing state (0.8 $S_r < s \le S_r$)
Repeat accuracy	\leq 0.3 mm	IO-Link	\checkmark
Hysteresis	$3\% S_r \le Hyst \le 15\% S_r$	MTTF (@40°C)	1028 y
Temperature drift	\leq 10% S _r		
Standard target	30 x 30 x 1 mm ³ , FE360		
Noto: 0.08 < 8 < 1.18			

INTERFACE

Note: $0.9S_n \le S_r \le 1.1S_n$.

ELECTRICAL DATA

Supply voltage range (U _B)	1030 VDC	Mounting	Embeddable
Residual ripple	\leq 20% U _B	Housing material	V4A / 1.4435 / AISI 316L
Output current	≤ 200 mA	Sensing face material	V4A / 1.4435 / AISI 316L
Output voltage drop	≤ 2.0 VDC	Max tightening torque	50 Nm
Power consumption (no-load)	≤ 10 mA	Ambient operating temperature	-25+85°C1
Residual current	≤ 0.1 mA	Enclosure rating	IP68 / IP69K
Switching frequency	≤ 200 Hz	Weight (cable/connector)	see page 2
Short-circuit protection	\checkmark	Shock and vibration	IEC 60947-5-2 / 7.4
Voltage reversal protection	\checkmark		
Cable length max.	≤ 300 m		

¹Maximum temperature according to UL: 70°C.

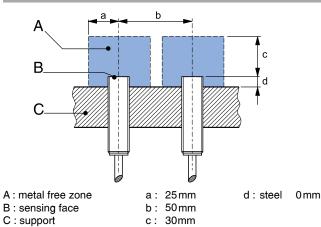
Note: all data measured according to IEC 60947-5-2 standard with $\rm U_{B}=20\ldots 30VDC,\, T_{A}=23^{\circ}C\pm5^{\circ}C.$

CORRECTION FACTORS FOR TARGET OF										
Steel FE 360	1	Copper	0.85	Aluminum	1	Brass	1.25	Stainless Steel V2A 1/2 mm	0.5 / 0.9	
CORRECTION FACTORS FOR EMBEDDARI E MOUNTING IN SUPPORT OF										

Steel FE 360	0.75	Aluminum	0.9	Brass	0.75	Stainless Steel V2A	0.8	

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 $S_{n,AI} = S_n \times CF_{AI}$. In case of embeddable mounting, the distance is multiplied by the additional correction factor of the support, thus $S_{n,AI} = S_n \times CF_{AI} \times CF_{emb,AI}$.

INSTALLATION CONDITIONS





IO-LINK FUNCTIONALITIES

1.1

Supported

7-bit input

10.4 ms

Not supported

COM2 (38.4 kBaud)

IO-Link version

Process data

Minimum cycle time

SIO mode

Baudrate

ISDU

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.

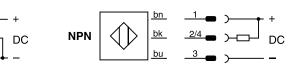
Note: additional installation information can be found in the glossary of the Contrinex General Catalog.

WIRING DIAGRAM

PNP

bn bk

bu



PIN ASSIGNMENT



AVAILABLE TYPES

Part number	Part reference	Polarity	Connection	Output on pin 2	Output on pin 4 / bk	Weight
320-420-283	DW-LD-701-M18	NPN	TPE-S, 2 m, 3 wire	-	Normally open (NO)	115 g
320-420-284	DW-LD-702-M18	NPN	TPE-S, 2 m, 3 wire	Normally close (NC)	-	115 g
330-320-031	DW-LD-703-M18	PNP	TPE-S, 2 m, 3 wire	-	Normally open (NO) / IO-Link	115 g
320-420-286	DW-LD-704-M18	PNP	TPE-S, 2 m, 3 wire	Normally close (NC)	-	115 g
320-420-265	DW-LS-701-M18-002	NPN	M12 4-pin	-	Normally open (NO)	53 g
320-420-302	DW-LS-702-M18-002	NPN	M12 4-pin	Normally close (NC)	-	53 g
330-320-024	DW-LS-703-M18-002	PNP	M12 4-pin	-	Normally open (NO) / IO-Link	53 g
320-420-267	DW-LS-704-M18-002	PNP	M12 4-pin	Normally close (NC)	-	53 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.

CONTRINEX AG Industrial Electronics

Route du Pâqui 5-P.O. Box-CH 1720 Corminboeuf-Switzerland-Tel: +4126 460 46 46 Fax: +41 26 460 46 40 - Internet: www.contrinex.com - E-mail: info@contrinex.com

DW-Lx-70x-M18_Rev 1_22.11.2019_DW-TGF