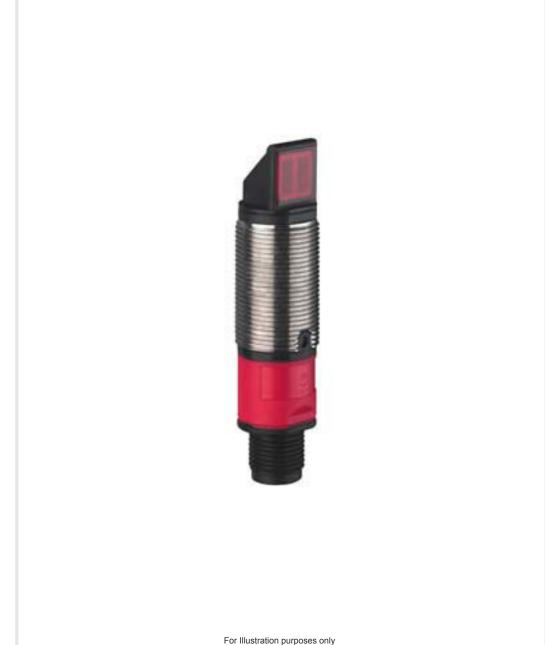


Technical data sheet Throughbeam photoelectric sensor transmitter

Part no.: 50122700

LS328.W/9D-M12



Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Diagrams
- Operation and display
- Suitable receivers
- Part number code
- Notes
- Further information
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Technical data



Basic data

Electrical data

Protective circuit	Polarity reversal protection
	Short circuit protected
Performance data	
Supply voltage U _B	10 30 V, DC, Incl. residual ripple
Residual ripple	0 15 %, From U _B
Open-circuit current	0 15 mA
Inputs	
Number of deactivation inputs	2 Piece(s)
Deactivation inputs	
5	
Deactivation input 1	

High

300 ms

Active switching state Low

Deactivation input 2 Active switching state

Time behavior

Readiness delay

Connection

Encoding

Connection 1				
Function	Signal IN			
	Voltage supply			
Type of connection	Connector			
Thread size	M12			
Туре	Male			
Material	Plastic			
No. of pins	4 -pin			

A-coded

Mechanical data

Thread size	M18 x 1 mm	
Dimension (Ø x L)	18 mm x 61 mm	
Housing material	Plastic	
	Stainless steel	
Stainless steel housing	V2A	
Plastic housing	ABS	
Lens cover material	Plastic	
Net weight	20 g	
Housing color	Black	
	Silver	

Operation and display

Type of display	LED
Number of LEDs	1 Piece(s)

Environmental data

Ambient temperature, operation	-40 60 °C	
Ambient temperature, storage	-40 70 °C	

Certifications

Degree of protection	IP 67
Protection class	III
Certifications	c UL US
Standards applied	IEC 60947-5-2

Classification

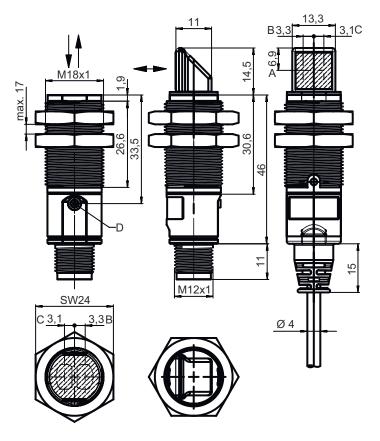
Classification	
Customs tariff number	85365019
ECLASS 5.1.4	27270901
ECLASS 8.0	27270901
ECLASS 9.0	27270901
ECLASS 10.0	27270901
ECLASS 11.0	27270901
ECLASS 12.0	27270901
ECLASS 13.0	27270901
ECLASS 14.0	27270901
ETIM 5.0	EC002716
ETIM 6.0	EC002716
ETIM 7.0	EC002716
ETIM 8.0	EC002716
ETIM 9.0	EC002716

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Dimensioned drawings

Leuze

All dimensions in millimeters



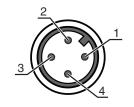
- Vertical position of the optical axis
- Optical axis (transmitter)
- Optical axis (receiver)
- Indicator diode

Electrical connection

Connection 1

Function	Signal IN
	Voltage supply
Type of connection	Connector
Thread size	M12
Туре	Male
Material	Plastic
No. of pins	4 -pin
Encoding	A-coded

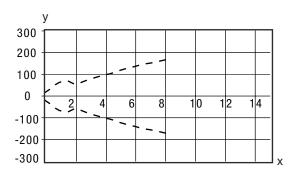
Pin	Pin assignment
1	V+
2	In2
3	GND
4	In1



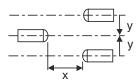
Diagrams



Typ. response behavior



- Distance [m]
- Misalignment [mm]



Operation and display

LED	Display	Meaning
1	Green, continuous light	Operational readiness
	Yellow, continuous light	Transmitted beam active

Suitable receivers

Part no.	Designation	Article	Description
50122706	LE328.W/2N-M12	Throughbeam photoelectric sensor receiver	Special version: 90° - angular optics Operating range limit: 0 8 m Supply voltage: DC Digital switching outputs: 2 Piece(s) Switching output 1: Transistor, NPN, Light switching Switching output 2: Transistor, NPN, Dark switching Switching frequency: 500 Hz Connection: Connector, M12, Plastic, 4 -pin
50122704	LE328.W/4P-M12	Throughbeam photoelectric sensor receiver	Special version: 90° - angular optics Operating range limit: 0 8 m Supply voltage: DC Digital switching outputs: 2 Piece(s) Switching output 1: Transistor, PNP, Light switching Switching output 2: Transistor, PNP, Dark switching Switching frequency: 500 Hz Connection: Connector, M12, Plastic, 4 -pin

Part number code

Part designation: XXX328BY-AAAF.BB/CC-DDD

XXX328	Operating principle PRK: Retro-reflective photoelectric sensor with polarization filter ET: energetic diffuse reflection sensor FT: diffuse reflection sensor with fading LE: Throughbeam photoelectric sensor receiver LS: throughbeam photoelectric sensor transmitter
Υ	Light type n/a: red light I: infrared light

Part number code



AAAF	Preset range (optional) n/a: operating range acc. to data sheet xxxF: Preset range [mm]
ВВ	Equipment n/a: axial optics W: 90° angular optics 3: teach-in via button
СС	Switching output / function (OUT1 = pin 4, OUT2 = pin 2): 4: PNP transistor output, light switching P: PNP transistor output, dark switching 2: NPN transistor output, light switching N: NPN transistor output, dark switching 9: input for transmitter deactivation (deactivation with HIGH signal) D: Input for transmitter deactivation (deactivation with LOW signal) X: pin not used
DDD	Electrical connection n/a: cable, standard length 2000 mm, 4-wire M12: M12 connector, 4-pin (plug)

Note



🖔 A list with all available device types can be found on the Leuze website at www.leuze.com.

Notes



Observe intended use!



- This product is not a safety sensor and is not intended as personnel protection.
- The product may only be put into operation by competent persons.
- Only use the product in accordance with its intended use.

For UL applications:



- 🖖 For UL applications, use is only permitted in Class 2 circuits in accordance with the NEC (National Electric Code).
- These proximity switches shall be used with UL Listed Cable assemblies rated 30V, 0.5A min, in the field installation, or equivalent (categories: CYJV/ CYJV7 or PVVA/PVVA7)

Further information

• Sum of the output currents for both outputs, 50 mA for ambient temperatures > 40 °C

Accessories



Connection technology - Connection cables

	Part no.	Designation	Article	Description
W 0	50130652	KD U-M12-4A-V1- 050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC
W/	50130690	KD U-M12-4W-V1- 050	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4-pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC

Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
0	50113548	BT D18M.5	Mounting bracket	Diameter, inner: 18 mm Design of mounting device: Angle, L-shape Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Rigid Material: Stainless steel

Mounting technology - Rod mounts

	Part no.	Designation	Article	Description
Offe	50117490	BTU D18M-D12	Mounting system	Design of mounting device: Mounting system Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal

Mounting technology - Other

	Part no.	Designation	Article	Description
00	50126631 **	BT 328M	Fastening	Design of mounting device: Mounting clamp Fastening, at system: For 18 mm rod, Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Turning, 360° Material: Stainless steel Shock absorber: No

^{**} Included in delivery contents

Note

A

🕏 A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.