

Technical data sheet Throughbeam photoelectric sensor transmitter Part no.: 50122703 LS328/9D



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 changes

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We reserve the right to make technical changes

328

Transmitter

Throughbeam principle

Deactivation input

Polarity reversal protection

Technical data

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Basic data

Series Operating principle Device type

Special version

Special version

Optical data

Operating range	0 10 m
Operating range	Guaranteed operating range
Operating range limit	Typical operating range
Operating range limit	0 15 m
Light source	LED, Red
Wavelength	620 nm
Transmitted-signal shape	Pulsed
LED group	Exempt group (in acc. with EN 62471)

Electrical data

Protective circuit

	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			
Deactivation input 1 Active switching state	Low		
Deactivation input 2 Active switching state	High		
Time behavior			
Readiness delay	300 ms		

Thread size M18 x 1 mm Dimension (Ø x L) 18 mm x 46 mm Housing material Plastic Stainless steel Stainless steel housing V2A Plastic housing ABS Lens cover material Plastic Net weight 70 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 IP 67 Degree of protection **Protection class** III Certifications c UL US Standards applied IEC 60947-5-2 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

EC002716

Mechanical data

Connection

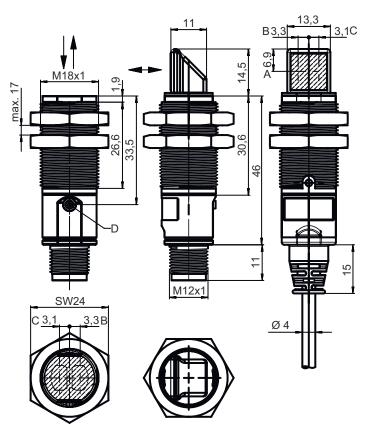
Connection 1	
Function	Signal IN
	Voltage supply
Type of connection	Cable
Cable length	2,000 mm
Sheathing material	PUR
Cable color	Black
Number of conductors	4 -wire
Wire cross section	0.2 mm ²

ETIM 9.0

Dimensioned drawings



All dimensions in millimeters



- A Vertical position of the optical axis
- B Optical axis (transmitter)
- C Optical axis (receiver)
- D Indicator diode

Electrical connection

Connection 1

Function	Signal IN
	Voltage supply
Type of connection	Cable
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Sheathing material	PUR
Cable color	Black
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Wire cross section	0.2 mm ²

Conductor color

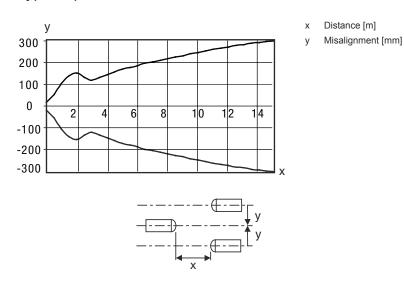
Conductor assignment

Brown	V+
White	In2
Blue Black	GND
Black	In1

Diagrams

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Typ. response behavior



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
50122712	LE328/2N	Throughbeam photoelectric sensor receiver	Operating range limit: 0 15 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: Cable, 2,000 mm, 4 -wire
50122710	LE328/4P	Throughbeam photoelectric sensor receiver	Operating range limit: 0 15 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: Cable, 2,000 mm, 4 -wire

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
Y	Light type n/a: red light I: infrared light
AAAF	Preset range (optional) n/a: operating range acc. to data sheet xxxF: Preset range [mm]

Part number code



BB	Equipment n/a: axial optics W: 90° angular optics 3: teach-in via button			
CC	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 2000mm, 4-wire M12: M12 connector, 4-pin (plug)			
Ν	lote			
6	A list with all available device types can be found on the Leuze website at www.leuze.com.			

Notes

Observe intended use!
by This product is not a safety sensor and is not intended as personnel protection.
b 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



Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
C	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
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
	50083189	BT 318-ARH	Adjustment fastening part	Design of mounting device: Mounting plate Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Swiveling, Adjustable Material: Metal Shock absorber: No
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
6	^t A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.