



the sensor people





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







Figure can vary

Contents

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



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Technical data

Basic data				
Series Series	328			
Operating principle	Throughbeam principle			
Device type	Transmitter			
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Special design				
Special design	Deactivation input			
	·			
Optical data				
Operating range	Guaranteed operating range			
Operating range	0 10 m			
Operating range limit	Typical operating range			
Operating range limit	0 15 m			
Light source	LED, Red			
LED light wavelength	620 nm			
Transmitted-signal shape	Pulsed			
LED group	Exempt group (in acc. with EN 62471)			
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				
Deactivation input 1				
Active switching state	Low			
Deactivation input 2				
Active switching state	High			
Timing				
Readiness delay	300 ms			
Connection				
Connection 1				
Type of connection	Cable			
Function	Voltage supply Signal IN			
Cable length	2,000 mm			
Sheathing material	PUR			
Cable color	Black			
Number of conductors	4 -wire			
Wire cross section	0.2 mm ²			

Mechanical data



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

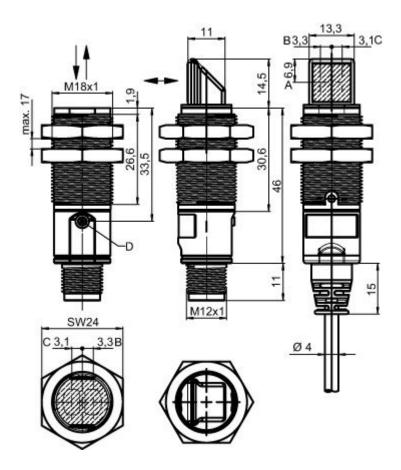
Classification	
eCl@ss 8.0	27270901
eCl@ss 9.0	27270901
ETIM 5.0	EC002716
ETIM 6.0	EC002716

Dimensioned drawings

All dimensions in millimeters



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A Vertical position of the optical axis

B Optical axis (transmitter)

C Optical axis (receiver)

D Indicator diode

Electrical connection

Connection 1		
Type of connection	Cable	
Function	Voltage supply Signal IN	
Cable length	2,000 mm	
Sheathing material	PUR	
Cable color	Black	
Number of conductors	4 -wire	
Wire cross section	0.2 mm²	

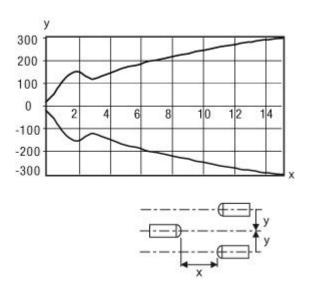
Conductor color	Conductor assignment
Brown	V+
White	In2
Blue	GND
Black	In1



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Diagrams

Typ. response behavior



- Distance [m] Misalignment [mm]

Operation and display

LEDs

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



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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 l: infrared light
AAAF	Pre-set range (optional): n/a: operating range acc. to data sheet XXXX: pre-set range [mm]
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, PVC, standard length 2000 mm, 4-wire M12: M12 connector, 4-pin (plug)

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)
- 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
O	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

Leuze electronic GmbH + Co. KG, In der Braike 1, 73277 Owen Phone: +49 7021 573-0, Fax: +49 7021 573-199



Part no.: 50122703 - LS328/9D - Throughbeam photoelectric sensor transmitter

	Part no.	Designation	Article	Description
0	50117257	BT D21M	Mounting bracket	Diameter, inner: 21 mm Design of mounting device: Angle, L-shape Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Adjustable Material: Metal

Mounting technology - Rod mounts

	Part no.	Designation	Article	Description
Of:	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
OF THE STATE OF TH	50132729	AC D18M-CS	Clamp	Contains: 2x M24 mounting nut Diameter, inner: 18 mm Design of mounting device: Mounting clamp Fastening, at system: Screw type, Through-hole mounting Mounting bracket, at device: insertable, Clampable with limit stop Type of mounting device: Clampable, With limit stop Material: Metal
	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
	50117258	BT 318P-LS	Fastening	Contains: 10x Design of mounting device: Mounting clamp Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Rigid Material: Plastic
00	50126631 **	BT 328M	Fastening	Contains: 2x M18 mounting nut 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
08	50121904	BT318B-OM	Fastening	Design of mounting device: Mounting clamp Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Swiveling, Adjustable, Turning Material: Plastic

^{**} Included in delivery contents