

Technical data sheet Throughbeam photoelectric sensor receiver Part no.: 50122712 LE328/2N



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 changes

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We reserve the right to make technical changes

328

Receiver

Technical data

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Basic data

Series **Operating principle** Device type

Optical data

Operating range Operating range Operating range limit Operating range limit

0 ... 10 m Guaranteed operating range 0 ... 15 m Typical operating range

Throughbeam principle

Electrical data

P	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

Outputs

Number of digital switching outputs 2 Piece(s)

	Switching outputs		
	Voltage type	DC	
	Switching current, max.	100 mA	
	Switching voltage	high: ≥(U _B -2V)	
		low: $\leq 2 V$	
	Switching output 1 Switching element	Transistor, NPN	
	0	,	
	Switching principle	Light switching	
	Switching output 2 Switching element	Transistor, NPN	
	Switching principle	Dark switching	
ne	e behavior		
ito	ching frequency	500 Hz	

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Switching frequency	500 Hz
Response time	1 ms
Readiness delay	300 ms

Connection

Connection 1	
Function	Signal OUT
	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

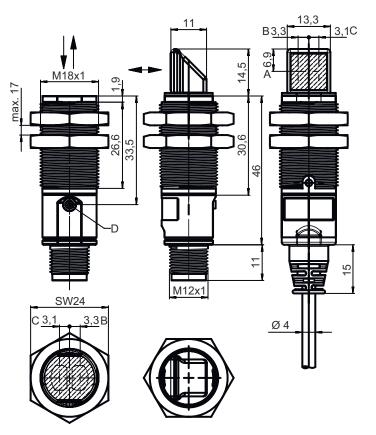
Mechanical data

Dimension (Ø x L)	18 mm x 46 mm
Thread size	M18 x 1 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	
Degree of protection	IP 67
Protection class	III
Approvals	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
ECLASS 15.0	27270901
ETIM 5.0	EC002716
ETIM 6.0	EC002716
ETIM 7.0	EC002716
ETIM 8.0	EC002716
ETIM 9.0	EC002716
ETIM 10.0	EC002716

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

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	Voltage supply
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Conductor color

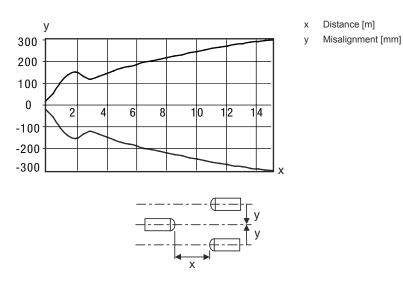
Conductor assignment

Brown	V+
White	OUT 2
Blue	GND
Black	OUT 1

Diagrams

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Typ. response behavior



Operation and display

LED	Display	Meaning
1	Green, continuous light	Operational readiness
	Yellow, continuous light	Light path free
	Yellow, flashing	No function reserve
	reliow, trasning	No function reserve

Suitable transmitters

 Part no.	Designation	Article	Description
50122703	LS328/9D	Throughbeam photoelectric sensor transmitter	Special version: Deactivation input Operating range limit: 0 15 m Light source: LED, Red Supply voltage: DC Deactivation inputs: 2 Piece(s) 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]
ВВ	Equipment n/a: axial optics W: 90° angular optics 3: teach-in via button

Part number code

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 2000mm, 4-wire M12: M12 connector, 4-pin (plug)
	Note
1	the 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.
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For UL applications:

It is 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
P	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

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Accessories



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