

Technical data sheet Throughbeam photoelectric sensor transmitter Part no.: 50132418 LS5



Leuze electronic GmbH + Co. KG info@leuze.com • www.leuze.com • changes The Sensor People In der Braike 1, D-73277 Owen/Germany Phone: +49 7021 573-0 • Fax: +49 7021 573-199 eng • 2025-04-05

We reserve the right to make technical changes

Technical data

Basic data

Series Operating principle Device type

Optical data

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

5

Transmitter

Throughbeam principle

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
т	ime behavior	
R	eadiness delay	300 ms

Connection

Connection 1		
Function	Voltage supply	
Type of connection	Cable	
Cable length	2,000 mm	
Sheathing material	PUR	
Cable color	Black	
Number of conductors	3 -wire	
Wire cross section	0.2 mm²	

Mechanical data

Dimension (W x H x L)	14 mm x 32.5 mm x 20.2 mm
Housing material	Plastic
Plastic housing	ABS
Lens cover material	Plastic
Net weight	70 g
Housing color	Black
	Red

Operation and display

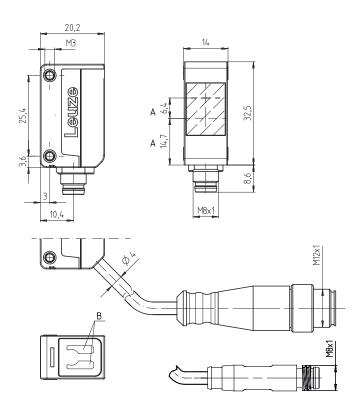
Operation and display				
Type of display	LED			
Number of LEDs	2 Piece(s)			
Environmental data				
Ambient temperature, operation	-40 60 °C			
Ambient temperature, storage	-40 70 °C			
Certifications				
Degree of protection	IP 67			
Protection class	III			
Approvals	c UL US			
Standards applied	IEC 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			

Leuze

Dimensioned drawings

Leuze

All dimensions in millimeters



Electrical connection

Connection 1

Function	Voltage supply
Type of connection	Cable
Cable length	2,000 mm
Sheathing material	PUR
Cable color	Black
Number of conductors	3 -wire
Wire cross section	0.2 mm²

Optical axis

Indicator diode

А

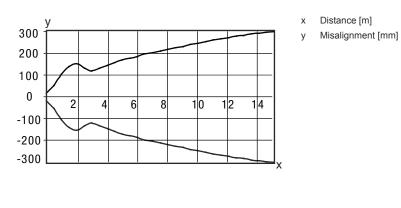
В

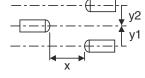
Conductor color	Conductor assignment
Brown	V+
White	n.c.
Blue	GND

Diagrams

Leuze

Typ. response behavior





Operation and display

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

Suitable receivers

 Part no.	Designation	Article	Description
50132420	LE5/2	Throughbeam photoelectric sensor receiver	Operating range limit: 0 12 m Supply voltage: DC Digital switching outputs: 1 Piece(s) Switching output 1: Transistor, NPN, Light switching Switching frequency: 500 Hz Connection: Cable, 2,000 mm, 3 -wire
50117688	LE5/2N	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
50132417	LE5/4	Throughbeam photoelectric sensor receiver	Operating range limit: 0 12 m Supply voltage: DC Digital switching outputs: 1 Piece(s) Switching output 1: Transistor, PNP, Light switching Switching frequency: 500 Hz Connection: Cable, 2,000 mm, 3 -wire
50117691	LE5/4P	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

Suitable receivers

Leuze

 Part no.	Designation	Article	Description
50135925	LE5/N	Throughbeam photoelectric sensor receiver	Operating range limit: 0 12 m Supply voltage: DC Digital switching outputs: 1 Piece(s) Switching output 1: Transistor, NPN, Dark switching Switching frequency: 500 Hz Connection: Cable, 2,000 mm, 3 -wire
50135926	LE5/P	Throughbeam photoelectric sensor receiver	Operating range limit: 0 12 m Supply voltage: DC Digital switching outputs: 1 Piece(s) Switching output 1: Transistor, PNP, Dark switching Switching frequency: 500 Hz Connection: Cable, 2,000 mm, 3 -wire

Part number code

Part designation: AAA5d.EE/ ff-GG-hh-l

AAA5	Operating principle / construction HT5: diffuse reflection sensor with background suppression LS5: throughbeam photoelectric sensor transmitter LE5: throughbeam photoelectric sensor receiver ET5: energetic diffuse reflection sensor FT5: diffuse reflection sensor with fading PRK5: retro-reflective photoelectric sensor with polarization filter
d	Light type n/a: red light I: infrared light
EE	Equipment 1: adjustable range M: for semi-transparent objects H: For the detection of transparent films X: reinforced fading 3: teach-in via button R: combination product for reflector DTKS 30x50
ff	Switching output / function / OUT1OUT2 (OUT1 = pin 4, OUT2 = pin 2) 2: NPN transistor output, light switching N: NPN transistor output, dark switching 4: PNP transistor output, light switching P: PNP transistor output, dark switching X: pin not used 9: deactivation input (deactivation with high signal) D: Deactivation input (deactivation with low signal)
GG	Version P1: narrow light beam
hh	Electrical connection n/a: cable, standard length 2000 mm, 4-wire M8: M8 connector, 4-pin (plug) M8.3: M8 connector, 3-pin (plug) 200-M8: cable, length 200 mm with M8 connector, 4-pin, axial (plug) 200-M8.3: cable, length 200 mm with M8 connector, 3-pin, axial (plug) 200-M12: cable, length 200 mm with M12 connector, 4-pin, axial (plug) 200-M12: cable, negth 200 mm with M12 connector, 4-pin, axial (plug) M8.1: Snap-in, M8 connector, 4-pin (plug)
1	Parameterization P1: different configuration
Note	



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.

b The product may only be put into operation by competent persons.



For UL applications:

♦ Only for use in "class 2" circuits

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 $^\circ\text{C}$

Accessories

Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
51	50118542	BT 200M.5	Mounting bracket	Design of mounting device: Angle, L-shape Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type, Suited for M3 screws Type of mounting device: Adjustable Material: Stainless steel
	50124651	BT 205M-10SET	Mounting device set	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: Metal

Mounting technology - Rod mounts

	Part no.	Designation	Article	Description
a o	50117829	BTP 200M-D12	Mounting system	Design of mounting device: Protection hood Fastening, at system: For 12mm rod Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal

Leuze

Accessories

Leuze

 Part no.	Designation	Article	Description
50117255	BTU 200M-D12	Mounting system	Design of mounting device: Mounting system Fastening, at system: For 12 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type, Suited for M3 screws Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal

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