



the sensor people





Part no.: 50134592 **LE5/4X-M8** Throughbeam photoelectric sensor receiver







Figure can vary

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Technical data

Basic data			
Series	5		
Operating principle	Throughbeam principle		
Device type	Receiver		
Device type	Nevervei		
Optical data			
Operating range	Guaranteed operating range		
Operating range	0 10 m		
Operating range limit	Typical operating range		
Operating range limit	0 15 m		
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		
Outputs			
Number of digital switching outputs	1 Piece(s)		
Switching outputs			
Voltage type	DC		
Switching current, max.	100 mA		
Switching voltage	High: ≥(U _B -2V) Low: ≤2V		
Switching output 1			
Assignment	Connection 1, conductor 4		
Switching element	Transistor , PNP		
Switching principle	Light switching		
Timing			
Switching frequency	500 Hz		
Response time	1 ms		
Readiness delay	300 ms		
Connection			
Connection 1			
Function	Signal OUT Voltage supply		
Type of connection	Connector		
Thread size	M8		
Туре	Male		
Material	Plastic		
No. of pins	4 -pin		
Mechanical data	44 mm v 20 5 mm v: 00 0 mm		
Dimension (W x H x L)	14 mm x 32.5 mm x 20.2 mm		
Housing material	Plastic , ABS		



Lens cover material	Plastic
Net weight	70 g
Housing color	Black Red
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
Certifications	c UL US
Standards applied	IEC 60947-5-2
Classification	
Customs tariff number	85365019
eCl@ss 8.0	27270901
eCl@ss 9.0	27270901
ETIM 5.0	EC002716

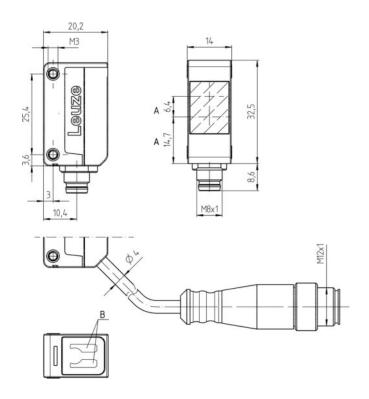
EC002716

Dimensioned drawings

All dimensions in millimeters

ETIM 6.0





A Optical axis B Indicator diode

Electrical connection

Connection 1	
Function	Signal OUT Voltage supply
Type of connection	Connector
Thread size	M8
Туре	Male
Material	Plastic
No. of pins	4 -pin
Encoding	

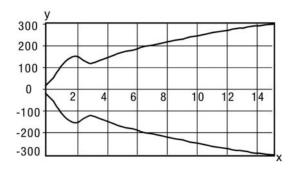
Pin	Pin assignment
1	V+
2	n.c.
3	GND
4	OUT 1

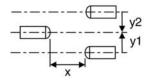




Diagrams

Typ. response behavior





- x Distance [m]
- y Misalignment [mm]

Operation and display

LEDs

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

Suitable transmitters

Part no.	Designation	Article	Description
50117695	LS5/9D-M8	Throughbeam photoelectric sensor transmitter	Operating range limit: 0 15 m Light source: LED, Red Supply voltage: DC Deactivation inputs: 2 Piece(s) Connection: Connector, M8, Plastic, 4 -pin Special design: Deactivation input
50134594	LS5/X-M8.3	Throughbeam photoelectric sensor transmitter	Operating range limit: 0 15 m Light source: LED, Red Supply voltage: DC Connection: Connector, M8, Plastic, 3 -pin



Part no.	Designation	Article	Description
50134585	LS5/XX-M8	Throughbeam photoelectric sensor transmitter	Operating range limit: 0 15 m Light source: LED, Red Supply voltage: DC Connection: Connector, M8, Plastic, 4 -pin

Part number code

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

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	Design: 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) M8.1: Snap-in, M8 connector, 4-pin (plug)
I	Configuration: P1: different configuration

Note

A list with all available device types can be found on the Leuze electronic 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:

- 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)
- 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
50130850	KD U-M8-4A- V1-050	Connection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC
50130871	KD U-M8-4W- V1-050	Connection cable	Connection 1: Connector, M8, Angled, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC

Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
	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
44444	50124651	BT 205M-10SET	Mounting device set	Contains: 10x 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 s	50117829	BTP 200M-D12	Mounting system	Design of mounting device: Protection hood Fastening, at system: For 12 mm rod Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal



	Part no.	Designation	Article	Description
5	50117255	BTU 200M-D12	Mounting system	Contains: 2x M3 x 16 screw, 2 M3 x 20 screws, 2x position washers 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

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