

Technical data sheet Throughbeam photoelectric sensor transmitter Part no.: 50138491 LS23/XX-M8



 The Sensor People
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Transmitter

Throughbeam principle

Technical data

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Basic data

Series **Operating principle** Device type

Optical data

Operating range	Guaranteed operating range
Operating range	0 8 m
Operating range limit	Typical operating range
Operating range limit	0 10 m
Light source	LED, Red
Wavelength	645 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	
т	ime behavior		

300 ms

Environmental data Ambient temperature, operation -40 ... 60 °C Ambient temperature, storage -40 ... 70 °C Certifications IP 67 Degree of protection Protection class Ш c UL US Certifications 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

LED

2 Piece(s)

EC002716

EC002716

EC002716

EC002716

Operation and display

Type of display

ETIM 5.0

ETIM 6.0

ETIM 7.0

ETIM 8.0

Number of LEDs

Readiness delay

Connection

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

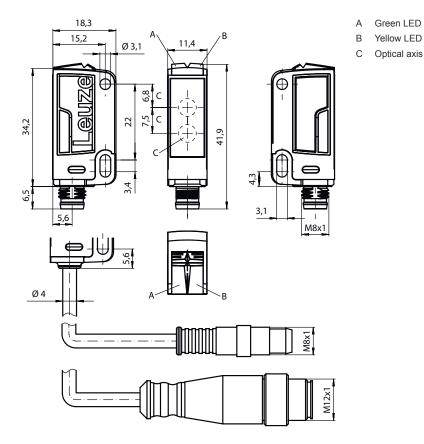
Mechanical data

Dimension (W x H x L)	11.4 mm x 34.2 mm x 18.3 mm
Housing material	Plastic
Plastic housing	PC-ABS
Lens cover material	Plastic / PMMA
Net weight	20 g
Housing color	Black
	Red

Dimensioned drawings

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All dimensions in millimeters



Electrical connection

Connection 1

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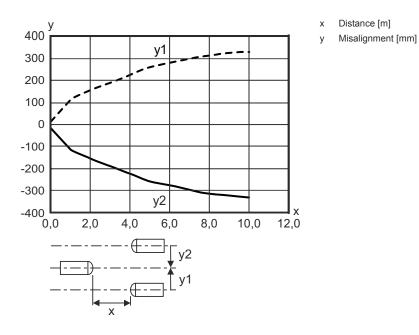
1	V+
2	n.c.
3	GND
4	n.c.



Diagrams

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Typ. response behavior



Operation and display

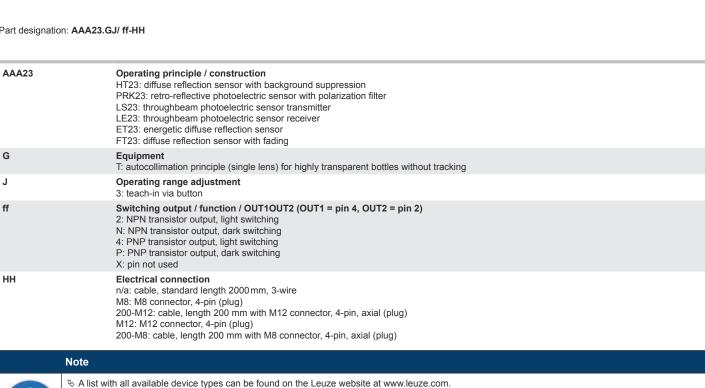
LED	Display	Meaning
1	Green, continuous light	Operational readiness
2	Yellow, continuous light	Transmitted beam active

Suitable receivers

	Part no.	Designation	Article	Description
I	50138497	LE23/2X-M8	Throughbeam photoelectric sensor receiver	Operating range limit: 0 10 m Supply voltage: DC Digital switching outputs: 1 Piece(s) Switching output 1: Transistor, NPN, Light switching Switching frequency: 500 Hz Connection: Connector, M8, Plastic, 4 -pin
Ũ	50138493	LE23/4X-M8	Throughbeam photoelectric sensor receiver	Operating range limit: 0 10 m Supply voltage: DC Digital switching outputs: 1 Piece(s) Switching output 1: Transistor, PNP, Light switching Switching frequency: 500 Hz Connection: Connector, M8, Plastic, 4 -pin

Part number code

Part designation: AAA23.GJ/ ff-HH



Notes

G

J

ff

Observe intended use!

- b 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.
- b 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)

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Accessories

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Connection technology - Connection cables

	Part no.	Designation	Article	Description
W/	50130850	KD U-M8-4A-V1-050	Connection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC
Ŵ	50130871	KD U-M8-4W-V1-050	Connection cable	Connection 1: Connector, M8, Angled, Female, 4 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC

Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
5.	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
00	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
j:	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

Accessories





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