

Technical data sheet Throughbeam photoelectric sensor transmitter Part no.: 50140109 LSS 25B.X-S8



 The Sensor People
 Leuze electronic GmbH + Co. I

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Technical data

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Basic data

Series	25B
Operating principle	Throughbeam principle
Device type	Transmitter
Application	Detection of products in bag packaging
	Extremely powerful transmitter for pene- trating materials

Optical data

Operating rangeServes to visualize the high transmitting power. It is extremely difficult to align the sensor at this distanceOperating range0 800 mLight sourceLED, InfraredWavelength850 nmTransmitted-signal shapePulsedLED groupExempt group (in acc. with EN 62471)		
Light source LED, Infrared Wavelength 850 nm Transmitted-signal shape Pulsed	Operating range	power. It is extremely difficult to align the
Wavelength 850 nm Transmitted-signal shape Pulsed	Operating range	0 800 m
Transmitted-signal shape Pulsed	Light source	LED, Infrared
. .	Wavelength	850 nm
LED group Exempt group (in acc. with EN 62471)	Transmitted-signal shape	Pulsed
	LED group	Exempt group (in acc. with EN 62471)

Electrical data

Protective circuit

Protective circuit	Polarity reversal protection
	Short circuit protected
Performance data	
Supply voltage U _B	10 30 V, DC
Residual ripple	0 15 %, From U _B
Open-circuit current	0 20 mA
lime behavior	

Time

Switching frequency	100 Hz
Response time	5 ms
Readiness delay	300 ms

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)	15 mm x 38.9 mm x 28.7 mm
Housing material	Plastic
Plastic housing	PC-ABS
Lens cover material	Plastic / PMMA
Net weight	55 g
Housing color	Red
Type of fastening	Through-hole mounting
	Via optional mounting device
Operation and display	
Type of display	LED
Number of LEDs	2 Piece(s)
Environmental data	
Ambient temperature, operation	-40 50 °C
Ambient temperature, storage	-40 60 °C
Certifications	
Degree of protection	IP 66
	IP 67
Protection class	II
Certifications	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
ETIM 5.0	EC002716
ETIM 6.0	EC002716
ETIM 7.0	EC002716
ETIM 8.0	EC002716

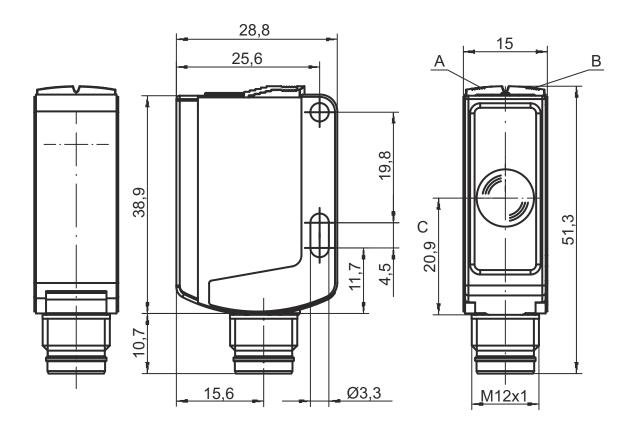
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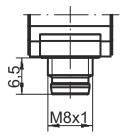
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Dimensioned drawings

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All dimensions in millimeters





A Green LED

B Yellow LED

C Optical axis

Electrical connection

Connection 1

Voltage supply
Connector
M8
Male
Plastic
4 -pin

Electrical connection

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Pin	Pin assignment	$\frac{2}{4}$
1	V+	
2	n.c.	
3	GND	1 3
4	n.c.	

Operation and display

LED	Display	Meaning
1	Green, continuous light	Operational readiness
2	Yellow, continuous light	Light path free

Suitable receivers

	Part no.	Designation	Article	Description
	50134496	LSE 25B/22.2-S8	Throughbeam photoelectric sensor receiver	Application: Detection of products in bag packaging Operating range limit: 0 240 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: 100 Hz Connection: Connector, M8, Plastic, 4 -pin Operational controls: 270° potentiometer
P	50134495	LSE 25B/44.2-S8	Throughbeam photoelectric sensor receiver	Application: Detection of products in bag packaging Operating range limit: 0 240 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: 100 Hz Connection: Connector, M8, Plastic, 4 -pin Operational controls: 270° potentiometer

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)

Further information

• Light source: Average life expectancy 100,000 h at an ambient temperature of 25 °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 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
Comos	50040269	BT 25	Mounting device	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

