



Part no.: 50141323
LSS 25B.X-S12
Throughbeam photoelectric sensor
transmitter



Figure can vary



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Technical data

Basic data	
Series	25B
Operating principle	Throughbeam principle
Device type	Transmitter
Application	Detection of products in bag packaging
Optical data	
Operating range	Guaranteed operating range
Operating range	0 ... 800 m
Light source	LED , Infrared
LED light wavelength	850 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
Residual ripple	0 ... 15 % , From U_B
Open-circuit current	0 ... 20 mA
Timing	
Switching frequency	100 Hz
Response time	5 ms
Readiness delay	300 ms
Connection	
Connection 1	
Type of connection	Connector
Function	Voltage supply
Thread size	M12
Type	Male
Material	Plastic
No. of pins	4 -pin
Encoding	A-coded
Mechanical data	
Dimension (W x H x L)	15 mm x 38.9 mm x 28.7 mm
Housing material	Plastic , 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

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Number of LEDs	2 Piece(s)
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Environmental data

Ambient temperature, operation	-40 ... 50 °C
Ambient temperature, storage	-40 ... 60 °C

Certifications

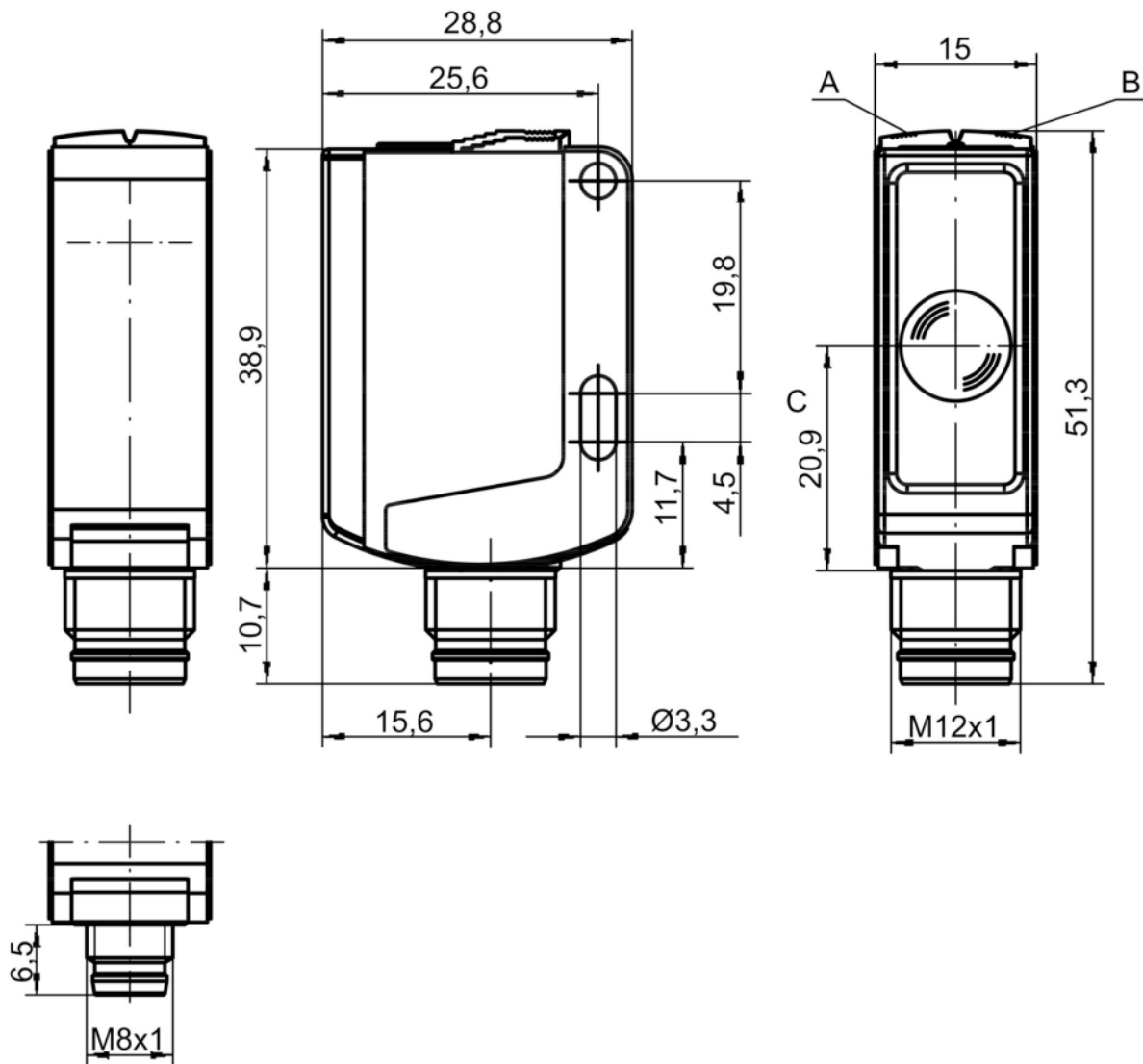
Degree of protection	IP 66 IP 67
Protection class	II
Certifications	c UL US
Standards applied	IEC 60947-5-2

Classification

Customs tariff number	85365019
eCl@ss 8.0	27270901
eCl@ss 9.0	27270901
ETIM 5.0	EC002716
ETIM 6.0	EC002716

Dimensioned drawings

All dimensions in millimeters



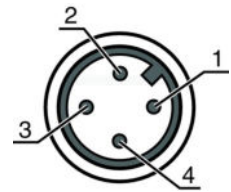
A Green LED
 B Yellow LED
 C Optical axis

Electrical connection

Connection 1	
Type of connection	Connector
Function	Voltage supply
Thread size	M12
Type	Male
Material	Plastic
No. of pins	4 -pin
Encoding	A-coded

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





Operation and display

LEDs

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

Suitable receivers

	Part no.	Designation	Article	Description
	50134494	LSE 25B/ 22.2-S12	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, M12, Plastic, 4 -pin Operational controls: 270° potentiometer
	50134493	LSE 25B/ 44.2-S12	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, M12, 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)

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- 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
	50130652	KD U-M12-4A-V1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 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
	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
	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
	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.