

Technical data sheet

Throughbeam photoelectric sensor receiver

Part no.: 50108813

LSE 96K/P-1039.1-41

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- Technical data
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For illustration purposes only



Technical data

Basic data

Series	96
Operating principle	Throughbeam principle
Device type	Receiver

Special version

Special version	Time function
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Optical data

Operating range	see transmitter
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Electrical data

Performance data

Supply voltage U_B	10 ... 30 V, DC
Residual ripple	0 ... 15 %, From U_B
Open-circuit current	0 ... 50 mA

Outputs

Number of digital switching outputs	1 Piece(s)
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Switching outputs

Type	Digital switching output
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Switching output 1

Switching element	Transistor, PNP
Switching principle	Light/dark switchable

Time behavior

Switching frequency	500 Hz
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Connection

Number of connections	1 Piece(s)
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Connection 1

Type of connection	Connector
Thread size	M12
Material	Plastic
No. of pins	4 -pin
Encoding	A-coded

Mechanical data

Dimension (W x H x L)	30 mm x 90 mm x 70 mm
Housing material	Plastic
Plastic housing	PC
Lens cover material	Plastic
Net weight	150 g
Note	Housing part used contains perfluorobutanesulfonic acid (PFBS)

Operation and display

Type of display	LED
Operational controls	270° potentiometer

Environmental data

Ambient temperature, operation	-40 ... 55 °C
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Certifications

Degree of protection	IP 67
Protection class	II
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

Electrical connection

Connection 1

Type of connection	Connector
Thread size	M12
Material	Plastic
No. of pins	4 -pin
Encoding	A-coded

Suitable transmitters

	Part no.	Designation	Operating range Operating range limit	Description
	50108812	LSS 96K-1079-43	0 ... 30 m 0 ... 35 m	Operating range limit: 0 ... 35 m Light source: LED, Infrared Supply voltage: DC Connection: Connector, M12, Plastic, 4 -pin

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 Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC
	50130690	KD U-M12-4W-V1-050	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 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
	50025570	BT 96	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
	50104897	BT 450.3-96	Mounting device	Design of mounting device: Mounting system Fastening, at system: For 12 mm rod Mounting bracket, at device: Screw type Type of mounting device: Turning, 360°, Adjustable Material: Metal

Accessories

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