

the sensor people





Figure can vary

Part no.: 50137207 LE3CL1.1/LP-M8 Throughbeam photoelectric sensor receiver













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Technical data

Pagin data			
Basic data Series	3C		
Operating principle	Throughbeam principle		
Device type	Receiver		
Device type	Neceiver		
Optical data			
Operating range	Guaranteed operating range		
Operating range	0 5 m		
Operating range limit	Typical operating range		
Operating range limit	0 10 m		
Electrical data			
Protective circuit	Polarity reversal protection Short circuit protected		
Performance data			
Supply voltage	10 30 V, DC, Incl. residual ripple		
Residual ripple	0 15 %, From U _B		
Open-circuit current	0 20 mA		
Outputs			
Number of digital switching outputs	2 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, pin 4		
Switching element	Transistor, Push-pull		
Switching principle	IO-Link / light switching (PNP)/dark switching (NPN)		
Switching output 2			
Assignment	Connection 1, pin 2		
Switching element	Transistor, PNP		
Switching principle	Dark switching		
Timing			
Switching frequency	1,000 Hz		
Response time	0.5 ms		
Readiness delay	300 ms		
Interface			
Type	IO-Link		
IO-Link	IO-LITIK		
COM mode	COM2		
Frame type	2.5		
Specification	V1.1		
oposition in the second			
SIO-mode support	Yes		



Connection		
Connection 1		
Type of connection	Connector	
Function	Signal OUT Voltage supply	
Thread size	M8	
Туре	Male	
Material	Metal	
No. of pins	4 -pin	
Mechanical data		
Design	Cubic	
Dimension (W x H x L)	11.4 mm x 34.2 mm x 18.3 mm	
Housing material	Plastic, PC-ABS	
ens cover material	Plastic / PMMA	
Net weight	10 g	
Housing color	Red	
Type of fastening	Via optional mounting device Through-hole mounting	
Compatibility of materials	ECOLAB	
Operation and display		
Гуре of display	LED	
Number of LEDs	2 Piece(s)	
Operational controls	270° potentiometer	
Function of the operational control	Sensitivity adjustment	
Environmental data		
Ambient temperature, operation	-10 60 °C	
Ambient temperature, storage	-40 70 °C	
Certifications		
Degree of protection	IP 69K IP 67	
Protection class	III	
Certifications	c UL US	
Standards applied	IEC 60947-5-2	
Classification		
eCl@ss 8.0	27270901	
eCl@ss 9.0	27270901	

EC002716

ETIM 5.0

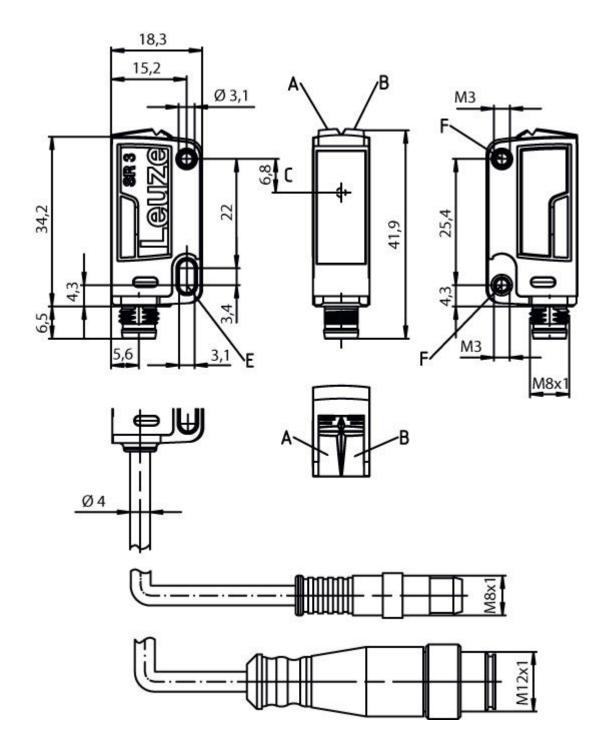


Suitable transmitters

	Part no.	Designation	Article	Description
A CONTRACT OF THE PARTY OF THE	50137198	LS3CL1/8X-M8	Throughbeam photoelectric sensor transmitter	Special design: Activation input Operating range limit: 0 10 m Light source: Laser, Red Supply voltage: DC Connection: Connector, M8, Metal, 4 -pin
	50137194	LS3CL1/XX-M8	Throughbeam photoelectric sensor transmitter	Operating range limit: 0 10 m Light source: Laser, Red Supply voltage: DC Connection: Connector, M8, Metal, 4 -pin

Dimensioned drawings

All dimensions in millimeters



Green LED Yellow LED A B C E F

Optical axis

Mounting sleeve (standard) Threaded sleeve (3C.B series)

Electrical connection

Connection 1	
Type of connection	Connector
Function	Signal OUT Voltage supply



Connection 1	
Thread size	M8
Туре	Male
Material	Metal
No. of pins	4 -pin
Encoding	

Pin	Pin assignment
1	V+
2	OUT 2
3	GND
4	IO-Link / OUT 1



Operation and display

LEDs

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

Accessories

Connection technology - Connection cables

Part no.	Designation	Article	Description
50130854	KD U-M8-4A- P1-020	Connection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PUR
50130855	KD U-M8-4A- P1-030	Connection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 3,000 mm Sheathing material: PUR
50130856	KD U-M8-4A- P1-050	Connection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PUR



Part no.	Designation	Article	Description
50130857	KD U-M8-4A- P1-100	Connection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PUR
50130858	KD U-M8-4A- P1-150	Connection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 15,000 mm Sheathing material: PUR
50130859	KD U-M8-4A- P1-200	Connection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 20,000 mm Sheathing material: PUR
50130848	KD U-M8-4A- V1-020	Connection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PVC
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
50130851	KD U-M8-4A- V1-100	Connection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PVC
50130852	KD U-M8-4A- V1-150	Connection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 15,000 mm Sheathing material: PVC
50130853	KD U-M8-4A- V1-200	Connection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 20,000 mm Sheathing material: PVC
50130873	KD U-M8-4W- P1-020	Connection cable	Connection 1: Connector, M8, Angled, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PUR
50130880	KD U-M8-4W- P1-020-DP	Connection cable	Connection 1: Connector, M8, Angled, Female, 4 -pin Connector, LED: Yes, 1 Piece(s) Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PUR



	Part no.	Designation	Article	Description
W	50130874	KD U-M8-4W- P1-030	Connection cable	Connection 1: Connector, M8, Angled, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 3,000 mm Sheathing material: PUR
W	50130875	KD U-M8-4W- P1-050	Connection cable	Connection 1: Connector, M8, Angled, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PUR
W	50130881	KD U-M8-4W- P1-050-DP	Connection cable	Connection 1: Connector, M8, Angled, Female, 4 -pin Connector, LED: Yes, 1 Piece(s) Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PUR
W	50130876	KD U-M8-4W- P1-100	Connection cable	Connection 1: Connector, M8, Angled, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PUR
W 0	50130882	KD U-M8-4W- P1-100-DP	Connection cable	Connection 1: Connector, M8, Angled, Female, 4 -pin Connector, LED: Yes, 1 Piece(s) Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PUR
W	50130869	KD U-M8-4W- V1-020	Connection cable	Connection 1: Connector, M8, Angled, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PVC
W	50130877	KD U-M8-4W- V1-020-DP	Connection cable	Connection 1: Connector, M8, Angled, Female, 4 -pin Connector, LED: Yes, 1 Piece(s) Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PVC
W	50130870	KD U-M8-4W- V1-030	Connection cable	Connection 1: Connector, M8, Angled, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 3,000 mm Sheathing material: PVC
W	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
W	50130878	KD U-M8-4W- V1-050-DP	Connection cable	Connection 1: Connector, M8, Angled, Female, 4 -pin Connector, LED: Yes, 1 Piece(s) Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC



Part no.	Designation	Article	Description
50130872	KD U-M8-4W- V1-100	Connection cable	Connection 1: Connector, M8, Angled, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PVC
50130879	KD U-M8-4W- V1-100-DP	Connection cable	Connection 1: Connector, M8, Angled, Female, 4 -pin Connector, LED: Yes, 1 Piece(s) Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PVC

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50107276	K-DS M8A- M12A-4P-0,3m- PVC	Interconnection cable	Connection 1: Connector, M12, Axial, Male, A-coded, 4 -pin Connection 2: Connector, M8, Axial, Female, 4 -pin Shielded: No Cable length: 300 mm Sheathing material: PVC
©	50130913	KDS U-M8-4A- M8-4A-P1-003	Interconnection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connection 2: Connector, M8, Axial, Male, 4 -pin Shielded: No Cable length: 300 mm Sheathing material: PUR
©	50130914	KDS U-M8-4A- M8-4A-P1-006	Interconnection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connection 2: Connector, M8, Axial, Male, 4 -pin Shielded: No Cable length: 600 mm Sheathing material: PUR
©	50130915	KDS U-M8-4A- M8-4A-P1-010	Interconnection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connection 2: Connector, M8, Axial, Male, 4 -pin Shielded: No Cable length: 1,000 mm Sheathing material: PUR
©	50130916	KDS U-M8-4A- M8-4A-P1-020	Interconnection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connection 2: Connector, M8, Axial, Male, 4 -pin Shielded: No Cable length: 2,000 mm Sheathing material: PUR

Mounting technology - Mounting brackets

Part no.	Designation	Article	Description
50118542	BT 200M.5	Mounting bracket	Design of mounting device: Angle, L-shape Mounting bracket, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Adjustable Material: Stainless steel



Part no.	Designation	Article	Description
50124651	BT 205M	Mounting device set	Contains: 10x Design of mounting device: Angle, L-shape Mounting bracket, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Rigid Material: Metal
50060511	BT 3	Mounting device	Design of mounting device: Angle, L-shape Mounting bracket, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Rigid Material: Metal
50105585	BT 3.1	Mounting strap set	Contains: 10x Design of mounting device: Retaining clip Mounting bracket, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Rigid Material: Metal
50105546	BT 3B	Mounting device	Design of mounting device: Angle, L-shape Mounting bracket, 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
(of	50117830	BTP 200M-D10	Mounting system	Design of mounting device: Protection hood Mounting bracket, at system: For 10 mm rod Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal
(of	50117829	BTP 200M-D12	Mounting system	Design of mounting device: Protection hood Mounting bracket, at system: For 12 mm rod Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal
(a)	50117828	BTP 200M-D14	Mounting system	Design of mounting device: Protection hood Mounting bracket, at system: For 14 mm rod Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal
	50117256	BTU 200M-D10	Mounting system	Contains: 2x M3 x 18 screw, 2x position washers Design of mounting device: Mounting system Mounting bracket, at system: For 10 mm rod, Sheet-metal mounting 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 18 screw, 2x position washers Design of mounting device: Mounting system Mounting bracket, at system: For 12 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal



Part no.	Designation	Article	Description
50117254	BTU 200M-D14	Mounting system	Contains: 2x M3 x 18 screw, 2x position washers Design of mounting device: Mounting system Mounting bracket, at system: For 14 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal
50120426	BTU 200M.5-D12	Mounting system	Contains: 2x M3 x 18 screw, 2x M3 mounting nut, 2x position washers Design of mounting device: Mounting system Mounting bracket, at system: For 12 mm rod Mounting bracket, at device: Screw type Type of mounting device: Turning, 360°, Clampable, Adjustable Material: Stainless steel

Mounting technology - Other

Part no.	Designation	Article	Description
50111830	BT 3.5	Mounting device	Design of mounting device: Retaining clip Mounting bracket, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Rigid Material: Metal

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)
- The push-pull switching outputs must not be connected in parallel.
- · Response time: For short decay times, an ohmic load of approx. 5 kOhm is recommended
- Sum of the output currents for both outputs, 50 mA for ambient temperatures > 40 °C

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