



the sensor people





Part no.: 50130463 LS49CI.UCH/TB Throughbeam photoelectric sensor transmitter







Figure can vary

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Technical data

Basic data			
Series 49C			
Operating principle	Throughbeam principle		
Device type	Transmitter		
Special design			
Special design	Heating		
Optical data			
Operating range	Guaranteed operating range		
Operating range	0.5 120 m		
Operating range limit	Typical operating range		
Operating range limit	0 150 m		
Light source	LED , Infrared		
LED light wavelength	860 nm		
Transmitted-signal shape	Pulsed		
LED group	Exempt group (in acc. with EN 62471)		
Electrical data			
Protective circuit	Polarity reversal protection		
	Short circuit protected Transient protection		
Performance data			
Supply voltage U _B	20 250 V , AC/DC		
Power consumption (with AC)	1.5 V·A		
Timing			
Readiness delay	300 ms		
Connection			
Connection 1			
Function	Voltage supply		
Type of connection	Terminal		
Type of terminal	Spring-cage terminal		
No. of pins	5 -pin		
Mechanical data			
Dimension (W x H x L)	31 mm x 104 mm x 55.5 mm		
Housing material	Plastic , PC		
Lens cover material	Plastic		
Net weight	150 g		
Housing color	Red		
Type of fastening	Through-hole mounting		
	Via optional mounting device		
Occupation and the t			
Operation and display	LED		
Type of display Number of LEDs	LED		
umber of LEDs 3 Piece(s)			



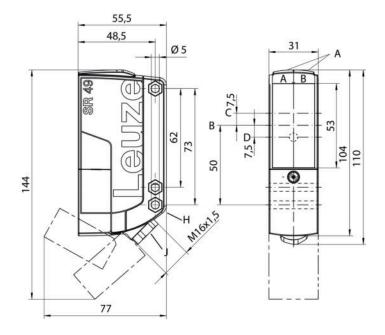
Environmental data		
Ambient temperature, operation	-40 60 °C	
Ambient temperature, storage	-40 70 °C	

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

Classification	
Customs tariff number	85365080
eCl@ss 8.0	27270901
eCl@ss 9.0	27270901
ETIM 5.0	EC002716
ETIM 6.0	EC002716

Dimensioned drawings

All dimensions in millimeters



AA Green LED

AB Yellow LED

- B Optical axis
- C Transmitter D Yellow LED
- G Countersinking for SK nut M5, 4.2 mm deep
- J Cable entry with M16 x 1.5 screw fitting for Ø 5 ... 10 mm



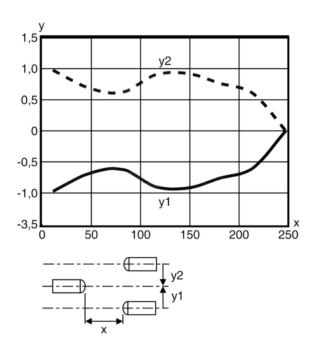
Electrical connection

Connection 1		
Function	Voltage supply	
Type of connection	Terminal	
Type of terminal	Spring-cage terminal	
No. of pins	5 -pin	

Terminal	Assignment
1	+/L1
2	- / N
3	n.c.
4	n.c.
5	n.c.

Diagrams

Typ. response behavior



- Distance [m] Misalignment [m]

Operation and display

LEDs

LED	Display	Meaning
1	Green, continuous light	Operational readiness
2	Yellow, continuous light	Operating voltage applied



LED	Display	Meaning
3	Yellow, continuous light (behind lens cover)	Transmitted beam active

Suitable receivers

Part no.	Designation	Article	Description
50130464	LE49CI.UCH/TS- TB	Throughbeam photoelectric sensor receiver	Special design: Heating Operating range limit: 0.5 150 m Supply voltage: AC/DC Digital switching outputs: 2 Piece(s) Switching output 1: Relay, NO, Light switching Switching output 2: Relay, NC, Light switching Switching frequency: 25 Hz Connection: Terminal, 5 -pin
50130466	LE49CI.UCH1/ M4-TB	Throughbeam photoelectric sensor receiver	Special design: Heating Operating range limit: 0.5 150 m Supply voltage: AC/DC Digital switching outputs: 1 Piece(s) Switching output 1: MOSFET semiconductor, NO (normally open), Light/dark reversible Switching frequency: 150 Hz Connection: Terminal, 5 -pin Operational controls: 270° potentiometer, Teach button

Part number code

Part designation: AAA49Cd.EEfG/iJ-KL

AAA49C	Operating principle / construction: PRK49C: retro-reflective photoelectric sensor with polarization filter HT49C: diffuse reflection sensor with background suppression LS49C: throughbeam photoelectric sensor transmitter LE49C: throughbeam photoelectric sensor receiver
d	Light type: n/a: red light l: infrared light
EE	Operating voltage: n/a: 10 30 V, DC UC: 20 250V AC/DC (all-mains design)
f	Equipment: H: with heating D: depolarizing media 1: 270° potentiometer 8: activation input (activation with high signal)
iJ	Switching output / Function / OUT1OUT2: 2: NPN transistor output, light switching N: NPN transistor output, dark switching 4: PNP transistor output, light switching P: PNP transistor output, dark switching W: warning output TS: Relay, NC contact/NO contact M4: Low impedance MOSFET semiconductor switching output, NO contact
KL	Electrical connection: TB: Terminal block - terminal compartment with spring terminals (5 x 1.5 mm²) n/a: cable, standard length 2000 mm

Note	
A list with	all available device types can be found on the Leuze electronic website at www.leuze.com.



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.
- All-insulated, rating voltage 250 VAC
- With inductive or capacitive load, provide suitable spark extinction (snubber)

Accessories

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
40	50128380	BTU 460M-D12	Mounting system	Design of mounting device: Mounting system Fastening, at system: For 12 mm rod Mounting bracket, at device: Screw type Type of mounting device: 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.