



the sensor people





Part no.: 50127445 LE49CI.UC/TS-TB Throughbeam photoelectric sensor receiver







Figure can vary

Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Diagrams
- Operation and display
- Suitable transmitters
- · Part number code
- Notes
- Accessories



Technical data

Basis data			
Basic data	400		
Series Operating principle	49C		
Operating principle	Throughbeam principle		
Device type	Receiver		
Optical data			
Operating range	Guaranteed operating range		
Operating range	0 120 m		
Operating range limit	Typical operating range		
Operating range limit	0.5 150 m		
operating range initial	0.0 100		
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		
Outputs			
Number of digital switching outputs	2 Piece(s)		
Switching outputs			
Voltage type	AC/DC		
Switching current, max.	2,500 mA		
Switching voltage	250 V AC/DC		
Switching output 1			
Assignment	Connection 1, pin 3		
Switching element	Relay , NC		
Switching principle	Light switching		
Switching output 2			
Assignment	Connection 1, pin 5		
Switching element	Relay , NO		
Switching principle	Light switching		
Timing			
Switching frequency	25 Hz		
Response time	20 ms		
Readiness delay	300 ms		
Connection			
Connection 1			
Function	Signal OUT 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 × 104 mm × 55.5 mm		
Housing material Plastic , PC			



Lens cover material	Plastic		
Net weight	150 g	150 g	
Housing color Red			
Type of fastening Through-hole mounting Via optional mounting device			

Operation and display	
Type of display	LED
Number of LEDs	3 Piece(s)

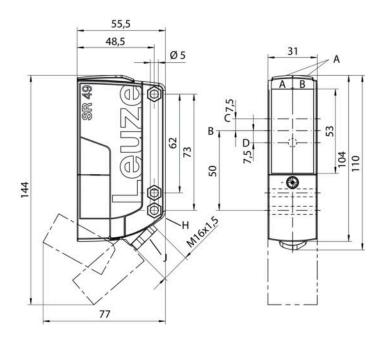
Environmental data	
Ambient temperature, operation	-40 60 °C
Ambient temperature, storage	-40 70 °C

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 Receiver
- 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

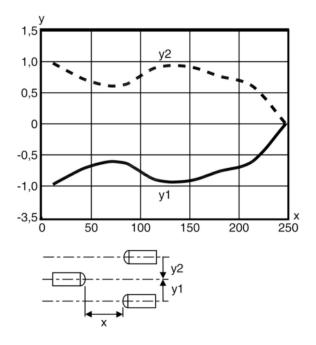
Electrical connection

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

Terminal	Assignment
1	+/L1
2	- / N
3	OUT 1
4	Base point
5	OUT 2

Diagrams

Typ. response behavior



- x Distance [m]
- y Misalignment [m]



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
3	Yellow, continuous light (behind lens cover) Light path free	
	Yellow, flashing (behind lens cover)	Light path free, minimum function reserve

Suitable transmitters

Part no.	Designation	Article	Description
50127439	LS49CI.UC-TB	Throughbeam photoelectric sensor transmitter	Operating range limit: 0 150 m Light source: LED, Infrared Supply voltage: AC/DC Connection: Terminal, 2 -pin

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 I: 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.