



the sensor people





Part no.: 50127443 LE49C.UC1/M4-TB Throughbeam photoelectric sensor receiver







Figure can vary

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Technical data

Basic data			
Series	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		
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	1 Piece(s)		
Switching outputs			
Voltage type	AC/DC		
Switching current, max.	400 mA		
Switching power	100 V·A		
Switching voltage	250 V AC/DC		
Switching output 1			
Assignment	Connection 1, pin 4		
Switching element	MOSFET semiconductor , NO (normally open)		
Switching principle	Light/dark reversible		
Timing			
Switching frequency	150 Hz		
Response time	3.3 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 x 104 mm x 55.5 mm		
Housing material	Plastic , PC		
Lens cover material	Plastic		
Net weight	150 g		
Housing color	Red		

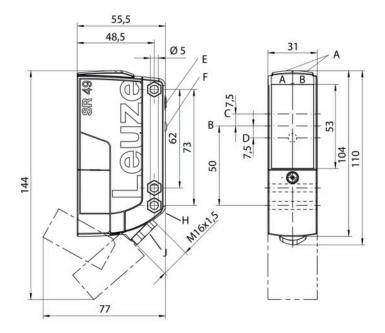


Torre of feet seize	There is both a constitute		
Type of fastening	Through-hole mounting Via optional mounting device		
	, ,		
Operation and display			
Type of display	LED		
Number of LEDs	3 Piece(s)		
Operational controls	270° potentiometer Teach button		
Function of the operational control	Activation of the time module for dropout delay Light/dark switching Sensitivity adjustment		
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
- E Sensitivity adjustment
- F Teach button
- 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

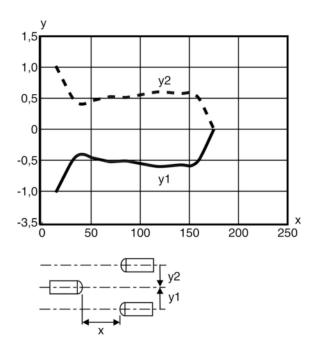
Connection 1		
Function	Signal OUT Voltage supply	
Type of connection	Terminal	
Type of terminal	Spring-cage terminal	
No. of pins	5 -pin	

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



Diagrams

Typ. response behavior



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

Operation and display

LEDs

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

Pa	art no.	Designation	Article	Description
5012	127437 L:		nhotoelectric	Operating range limit: 0 150 m Light source: LED, Red 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 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 / OUT10UT2: 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		

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
50	50128380	BTU 460M-D12		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.