



the sensor people





Part no.: 50130466 LE49CI.UCH1/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			
Special design				
Special design	Heating			
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			
Poutoumon de fe	Transient protection			
Performance data	20 250 // 40/DC			
Supply voltage U <sub>B</sub>	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	p. of pins 5 -pin			
Mechanical data				
Dimension (W x H x L)	31 mm x 104 mm x 55.5 mm			



Plastic , PC	
Plastic	
150 g	
Red	
Through-hole mounting Via optional mounting device	
	Plastic  150 g  Red  Through-hole mounting

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		

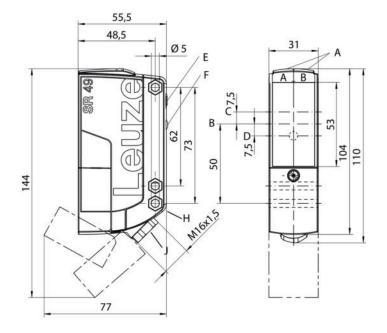
Certifications	
Degree of protection	IP 67
Protection class	II
Certifications	c UL US
Standards applied	IEC 60947-5-2

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**

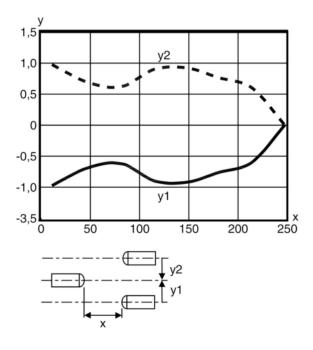
Connection 1	
Function	Signal OUT Voltage supply
Type of connection	Terminal
Type of terminal	Spring-cage terminal
No. of pins	5 -pin

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**

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
50	50130463		Throughbeam photoelectric sensor transmitter	Operating range limit: 0 150 m Light source: LED, Infrared Supply voltage: AC/DC Connection: Terminal, 2 -pin Special design: Heating



#### 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 r	no. Designation	Article	Description
500255	570 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



## Part no.: 50130466 – LE49CI.UCH1/M4-TB – Throughbeam photoelectric sensor Mounting technology - Rod mounts

Part no.	Designation	Article	Description
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.