

## Technical data sheet

## Throughbeam photoelectric sensor

Part no.: 50127442

LE49C.UC/TS



Figure can vary

### Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Circuit diagrams
- Diagrams
- Operation and display
- Suitable transmitters
- Part number code
- Notes
- Further information
- Accessories



## 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	2 Piece(s)
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### Switching outputs

Voltage type	AC/DC
Switching current, max.	2,500 mA
Switching voltage	250 V AC/DC

### Switching output 1

Switching element	Relay, NC
Switching principle	Light switching

### Switching output 2

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	Cable
Cable length	2,000 mm
Sheathing material	PVC
Cable color	Black
Number of conductors	5 -wire
Wire cross section	0.34 mm <sup>2</sup>

### 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

### 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

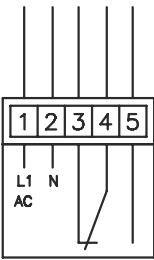
### Classification

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

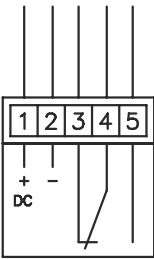


Circuit diagrams

AC

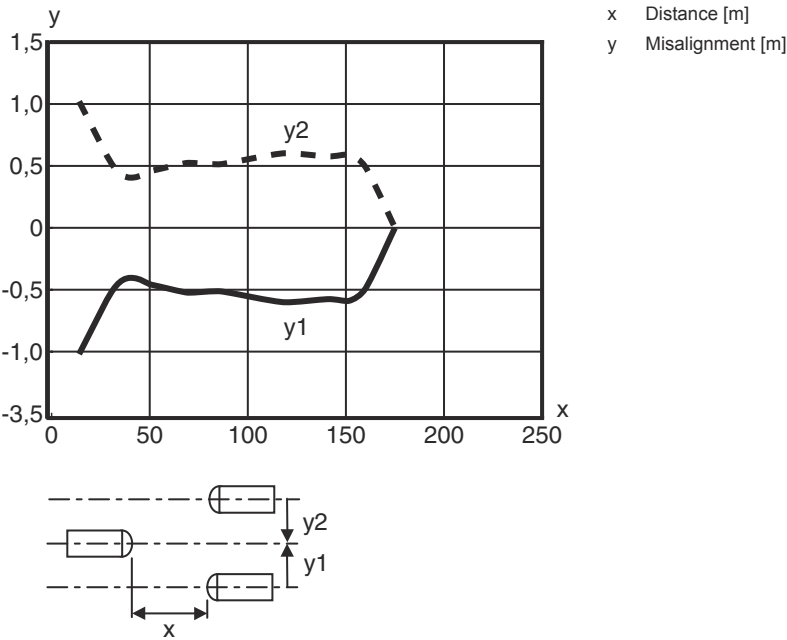


DC



Diagrams

Typ. response behavior




Operation and display

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

## Operation and display

LED	Display	Meaning
2	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
	50127438	LS49C.UC	Throughbeam photoelectric sensor transmitter	Operating range limit: 0 ... 150 m Light source: LED, Red Supply voltage: AC/DC Connection: Cable, 2,000 mm, 2 -wire

## Part number code

Part designation: **AAA49Cd.EEfG/iJ-KL**

<b>AAA49C</b>	<b>Operating principle / construction</b> 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
<b>d</b>	<b>Light type</b> n/a: red light I: infrared light
<b>EE</b>	<b>Operating voltage</b> n/a: 10 ... 30 V, DC UC: 20 ... 250V AC/DC (all-mains design)
<b>f</b>	<b>Equipment</b> H: with heating D: depolarizing media 1: 270° potentiometer 8: activation input (activation with high signal)
<b>iJ</b>	<b>Switching output / Function / OUT1OUT2</b> 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
<b>KL</b>	<b>Electrical connection</b> TB: Terminal block - terminal compartment with spring terminals (5 x 1.5 mm <sup>2</sup> ) n/a: cable, standard length 2000 mm

### Note



A list with all available device types can be found on the Leuze website at [www.leuze.com](http://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.

## Further information


- 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
	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 website in the Download tab of the article detailed page.