

Technical data sheet

Throughbeam photoelectric sensor

Part no.: 50130467

LE49C.UCH/TS-TB



Figure can vary

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Technical data

Basic data

Series	49C
Operating principle	Throughbeam principle
Device type	Receiver

Special version

Special version	Heating
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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

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 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
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

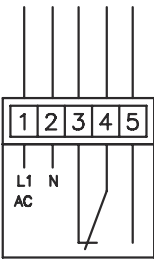
Degree of protection	IP 67
Protection class	II
Certifications	c UL US
Standards applied	IEC 60947-5-2

Classification

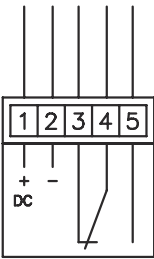
Customs tariff number	85365080
eCl@ss 8.0	27270901
eCl@ss 9.0	27270901
ETIM 5.0	EC002716
ETIM 6.0	EC002716

Circuit diagrams

AC

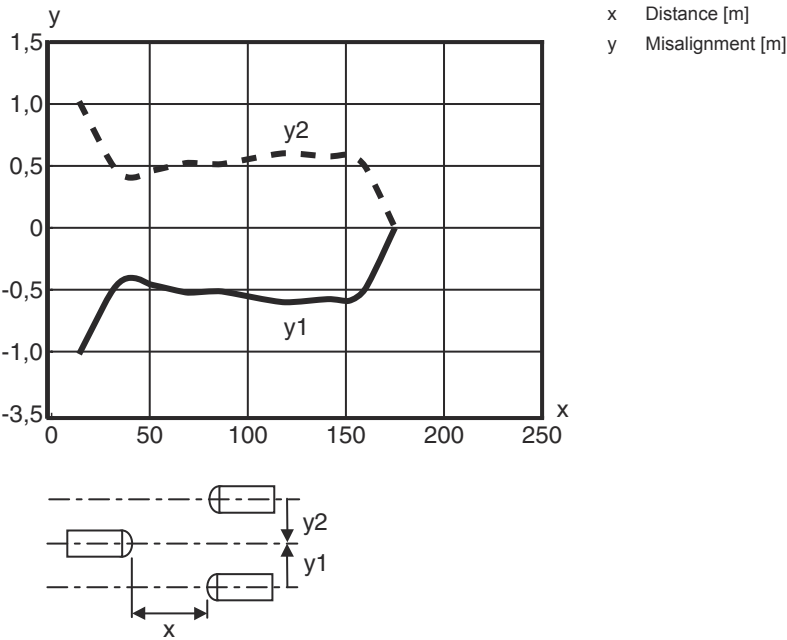


DC



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
	50130462	LS49C.UCH/TB	Throughbeam photoelectric sensor transmitter	Special version: Heating Operating range limit: 0 ... 150 m Light source: LED, Red Supply voltage: AC/DC Connection: Terminal, 5 -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 mm ²) 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.

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.