



the sensor people





Part no.: 50134460 LE49CI/4W-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		
Device type	Noorvoi		
Special design			
Special design	Warning output		
Optical data			
Operating range	Guaranteed operating range		
Operating range	0.5 120 m		
Operating range limit	Typical operating range		
Operating range limit	0 150 m		
Electrical data			
Protective circuit	Polarity reversal protection		
	Short circuit protected Transient protection		
Performance data	Transion protoction		
Supply voltage U _B	10 30 V , DC , Incl. residual ripple		
	0 15 % , From U _B		
Residual ripple			
Open-circuit current	0 20 mA		
Outputs			
Number of digital switching outputs	2 Piece(s)		
Switching outputs			
Voltage type	DC		
Switching current, max.	100 mA		
Switching voltage	High: ≥(U _B -2V) Low: ≤2V		
Switching output 1			
Assignment	Connection 1, pin 3		
Switching element	Transistor , PNP		
Switching principle	Light switching		
Switching output 2			
Assignment	Connection 1, pin 4		
Switching element	Transistor , PNP		
Switching principle	U _B switching		
Timing			
Switching frequency	500 Hz		
Response time	1 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		
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 .		

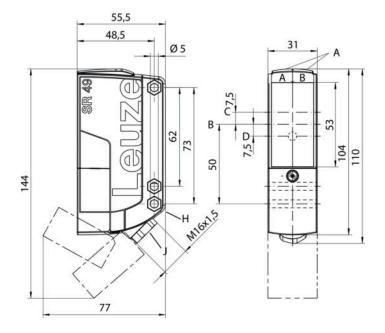
Certifications		
Degree of protection	IP 67	
Protection class	II	
Certifications	c UL US	
Standards applied	IEC 60947-5-2	

Classification	
Customs tariff number	85365019
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 \emptyset 5 ... 10 mm

Electrical connection

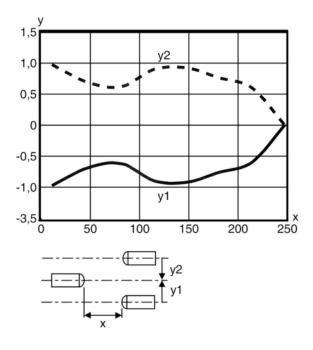
Connection 1		
Function	Signal OUT Voltage supply	
Type of connection	Terminal	
Type of terminal	Spring-cage terminal	
No. of pins	5 -pin	

Terminal	Assignment
1	V+
2	GND
3	OUT 1
4	OUT WARN
5	n.c.



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
50134452	LS49CI-TB	Throughbeam photoelectric sensor transmitter	Operating range limit: 0 150 m Light source: LED, Infrared Supply voltage: DC Connection: Terminal, 5 -pin



P	Part no.	Designation	Article	Description
501	0134453		photoelectric sensor transmitter	Operating range limit: 0 150 m Light source: LED, Infrared Supply voltage: DC Connection: Terminal, 5 -pin Special design: Activation input

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 / 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

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.

For UL applications:

- For UL applications, use is only permitted in Class 2 circuits in accordance with the NEC (National Electric Code).
- These proximity switches shall be used with UL Listed Cable assemblies rated 30V, 0.5A min, in the field installation, or equivalent (categories: CYJV/CYJV7 or PVVA/PVVA7)

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· All-insulated, rating voltage 250 VAC

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

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N	ote	

A list with all available accessories can be found on the Leuze electronic website in the Download tab of the article detailed page.