

Technical data sheet Throughbeam photoelectric sensor transmitter Part no.: 50150367 LS33CI.XXR/XX-M8



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Technical data

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Basic data

Series	33C		
Operating principle	Throughbeam principle		
Device type	Transmitter		
Application	Detection of products in bag packaging		
Optical data			
Operating range	0 340 m		
Operating range	Guaranteed operating range		
Operating range limit	0 400 m		
Operating range limit	Typical operating range		
Light source	LED, Infrared		
Wavelength	860 nm		
Transmitted-signal shape	Pulsed		
LED group	Exempt group (in acc. with EN 62471)		
Electrical data			
Protective circuit	Polarity reversal protection		
	Short circuit protected		
Performance data			

10 ... 30 V, DC, Incl. residual ripple 0 ... 15 %, From U_B

0 ... 20 mA

300 ms

Time behavior

Supply voltage U_B **Residual ripple**

Open-circuit current

Readiness delay

Connection

Connection 1	
Function	Voltage supply
Type of connection	Connector
Thread size	M8
Туре	Male
Material	Stainless steel
No. of pins	4 -pin

Mechanical data

Dimension (W x H x L)	18.8 mm x 52.8 mm x 32.4 mm
Housing material	Stainless steel
Material of operational control	Plastic (POM Hostaform C9021, copoly- ester Tritan TX1001), non-diffusive
Housing roughness	Ra ≤ 0,8, Typical value for the stainless steel housing
Stainless steel housing	AISI 316L, DIN X2CrNiMo17132, W. No1.4404
Lens cover material	Plastic (PMMA+) with scratch-resistant Indium protective coating
Net weight	120 g
Housing color	Silver
Type of fastening	Housing fit
Compatibility of materials	CleanProof+
	ECOLAB
	Johnson Diversey

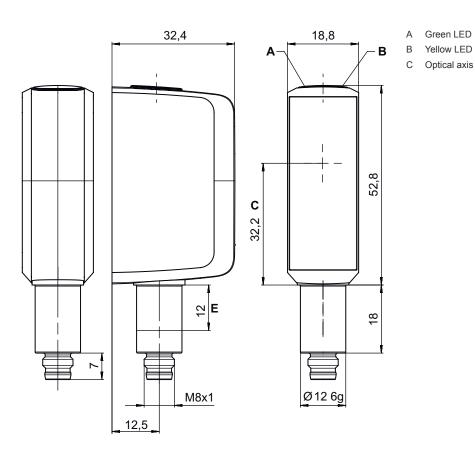
Environmental data

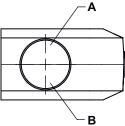
Ambient temperature, operation	-40 70 °C
Ambient temperature, storage	-40 70 °C
Certifications	
Degree of protection	IP 67
	IP 68
	IP 69K
Protection class	III
Approvals	c UL US
Standards applied	IEC 60947-5-2
Classification	
Customs tariff number	85365019
ECLASS 5.1.4	27270901
ECLASS 8.0	27270901
ECLASS 9.0	27270901
ECLASS 10.0	27270901
ECLASS 11.0	27270901
ECLASS 12.0	27270901
ECLASS 13.0	27270901
ECLASS 14.0	27270901
ECLASS 15.0	27270901
ETIM 5.0	EC002716
ETIM 6.0	EC002716
ETIM 7.0	EC002716
ETIM 8.0	EC002716
ETIM 9.0	EC002716
ETIM 10.0	EC002716

Dimensioned drawings



All dimensions in millimeters





Electrical connection

Connection 1

Function	Voltage supply
Type of connection	Connector
Thread size	M8
Туре	Male
Material	Stainless steel
No. of pins	4 -pin

Pin Pin assignment

1	V+
2	n.c.
3	GND
4	n.c.



Suitable receivers



 Part no.	Designation	Article	Description
50150368	LE33CI.XR1/LG-M8	Throughbeam photoelectric sensor receiver	Application: Detection of products in bag packaging Operating range limit: 0 220 m Supply voltage: DC Digital switching outputs: 2 Piece(s) Switching output 1: Transistor, Push-pull, IO-Link / light switching (PNP)/dark switching (NPN) Switching output 2: Transistor, Push-pull, Dark switching (PNP)/light switching (NPN) Switching frequency: 100 Hz Interface: IO-Link Connection: Connector, M8, Stainless steel, 4 -pin Operational controls: 270° potentiometer

Part number code

Part designation: AAA33C d EE.GGH/iJ-K

AAA33C	Operating principle LS33C: Throughbeam photoelectric sensor transmitter LE33C: Throughbeam photoelectric sensor receiver PRK33C: Retro-reflective photoelectric sensor with polarization filter HT33C: Diffuse reflection sensor with background suppression DRT33C: Dynamic reference diffuse sensor
d	Light type n/a: red light I: infrared light
EE	Light source n/a: LED PP: Power PinPoint® LED L1: laser class 1
GG	Equipment A: Autocollimation principle (single lens) D: Detection of stretch-wrapped objects X: extended model XL: Extra long light spot TT: autocollimation principle (single lens) for highly transparent bottles with tracking R: greater operating range XXR: super power transmitter
Н	Operating range adjustment 1: 270° potentiometer 2: multiturn potentiometer 3: teach-in via button
i	Switching output/function OUT 1/IN: Pin 4 or black conductor X: pin not used 8: activation input (activation with high signal) L: IO-Link interface (SIO mode: PNP light switching, NPN dark switching)
J	Switching output / function OUT 2/IN: pin 2 or white conductor T: teach-in via cable G: Push-pull switching output, PNP dark switching, NPN light switching X: pin not used
к	Electrical connection M8: M8 connector, 4-pin (plug)
Note	
🔶 A lis	st 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.

Further information

- Ambient temperature, operation: +70 °C permissible only briefly (≤ 15min)
- · IP 69K only with internal tube installation of M8 connector
- Light source: Average life expectancy 100,000 h at an ambient temperature of 25 °C
- · Sum of the output currents for both outputs 100 mA

Accessories

Connection technology - Connection unit

	Part no.	Designation	Article	Description
C. LATIT	50144900	MD 798i-11-82/L5- 2222	IO-Link master	Type: IO-Link master Current consumption, max.: 11,000 mA Switching outputs for each sensor connection: 1 Piece(s) Switching output: Transistor, PNP Interface: IO-Link, Automatic protocol detection, EtherNet IP, Modbus TCP, PROFINET Connections: 12 Piece(s) Sensor connections: 8 Piece(s) Connections for voltage supply: 2 Piece(s) Interface connections: 2 Piece(s) Dearee of protection: IP 67, IP 65, IP 69K

Connection technology - Connection cables

		Part no.	Designation	Article	Description
	W D	50106153	K-D M8A-4P-5m-FAB	Connection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC
•	W	50148347	KD U-M8-4A-T0-050 F+B	Connection cable	Connection 1: Connector, M8, Axial, Female, A-coded, 4 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: TPE

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Accessories

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 Part no.	Designation	Article	Description
50130850	KD U-M8-4A-V1-050	Connection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC

Mounting technology - Other

 Part no.	Designation	Article	Description
50145361	BTU 053M.5F-D12-T	Mounting system	Design of mounting device: Mounting system Fastening, at system: Screw type Mounting bracket, at device: For 12 mm rod Type of mounting device: Turning, 360°, Adjustable Material: Stainless steel

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