

Technical data sheet Throughbeam photoelectric sensor receiver Part no.: 50150366 LE33CPP/LG-M8



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Technical data

SIO-mode support

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Basic data

Bas	ic data			
Seri	es	33C		
Ope	rating principle	Throughbeam principle		
Dev	ice type	Receiver		
Opt	ical data			
Оре	rating range	0 25 m		
Оре	rating range	Guaranteed operating range		
Оре	rating range limit	0 30 m		
Оре	rating range limit	Typical operating range		
Ele	ctrical data			
Prot	ective circuit	Polarity reversal protection		
		Short circuit protected		
_				
	erformance data			
	upply voltage U _B	10 30 V, DC, Incl. residual ripple		
	esidual ripple	0 15 %, From U _B		
0	pen-circuit current	0 20 mA		
0	outputs			
	umber of digital switching outputs	2 Piece(s)		
	Switching outputs			
	Voltage type	DC		
	Switching current, max.	100 mA		
	Switching voltage	high: ≥(U _B -2.5V)		
		low: ≤ 2.5 V		
	Switching output 1			
	Assignment	Connection 1, pin 4		
	Switching element	Transistor, Push-pull		
	Switching principle	IO-Link / light switching (PNP)/dark swit-		
		ching (NPN)		
	Switching output 2	Connection 1 min 2		
	Assignment	Connection 1, pin 2		
	Switching element	Transistor, Push-pull		
	Switching principle	Dark switching (PNP)/light switching (NPN)		
Tim	e behavior			
Swit	ching frequency	1,500 Hz		
Res	ponse time	0.33 ms		
Rea	diness delay	300 ms		
Inte	rface			
Туре	;	IO-Link		
10	D-Link			
	OM mode	COM2		
Р	rofile	Smart sensor profile		
м	in. cycle time	COM2 = 2.3 ms		
	rame type	2.5		
	pecification	V1.1		
	evice ID	6118		

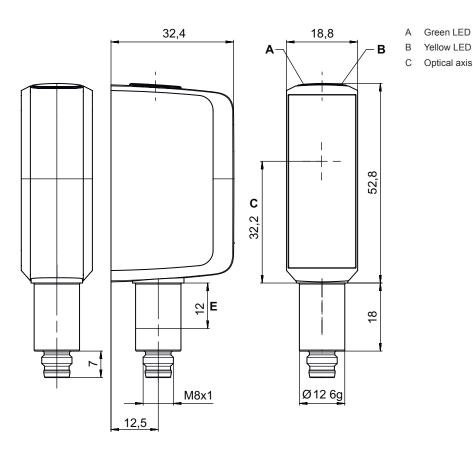
Yes

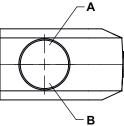
Connection 1	
Function	Signal IN
	Signal OUT
	Voltage supply
Type of connection	Connector
Thread size	M8
Туре	Male
Material	Stainless steel
No. of pins	4 -pin
Mechanical data	
Dimension (W x H x L)	18.8 mm x 52.8 mm x 32.4 mm
Housing material	Stainless steel
Material of operational control	Plastic (POM Hostaform C9021, copoly- ester Tritan TX1001), non-diffusive
Housing roughness	Ra \leq 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	65505019
LOLAGO J.1.4	27270001
ECLASS 8.0	27270901
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Dimensioned drawings



All dimensions in millimeters





Electrical connection

Connection 1

Function Sig	gnal IN
Sig	gnal OUT
Volt	Itage supply
Type of connection Cor	onnector
Thread size M8	3
Type Ma	ale
Material Sta	ainless steel
No. of pins 4 -p	pin

Electrical connection

Pin	Pin assignment	$\frac{2}{\sqrt{4}}$
1	V+	
2	OUT 2	
3	GND	1 3
4	IO-Link / OUT 1	

Suitable transmitters

 Part no.	Designation	Article	Description
50150365	LS33CPP/8X-M8	Throughbeam photoelectric sensor transmitter	Special version: Activation input Operating range limit: 0 30 m Light source: Power PinPoint LED, Red Supply voltage: DC Connection: Connector, M8, Stainless steel, 4 -pin

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 l: 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
6	∜ A list with all available device types can be found on the Leuze website at www.leuze.com.

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Notes



Observe intended use!

✤ This product is not a safety sensor and is not intended as personnel protection.

Further information

- Ambient temperature, operation: +70 °C permissible only briefly (≤ 15min)
- IP 69K only with internal tube installation of M8 connector
- Sum of the output currents for both outputs 100 mA

Accessories

Connection technology - Connection unit

	Part no.	Designation	Article	Description
Constitute	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) Degree of protection: IP 67, IP 65, IP 69K

Connection technology - Connection cables

		Part no.	Designation	Article	Description
	Ŵ	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
	Ŵ	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

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Accessories



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



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