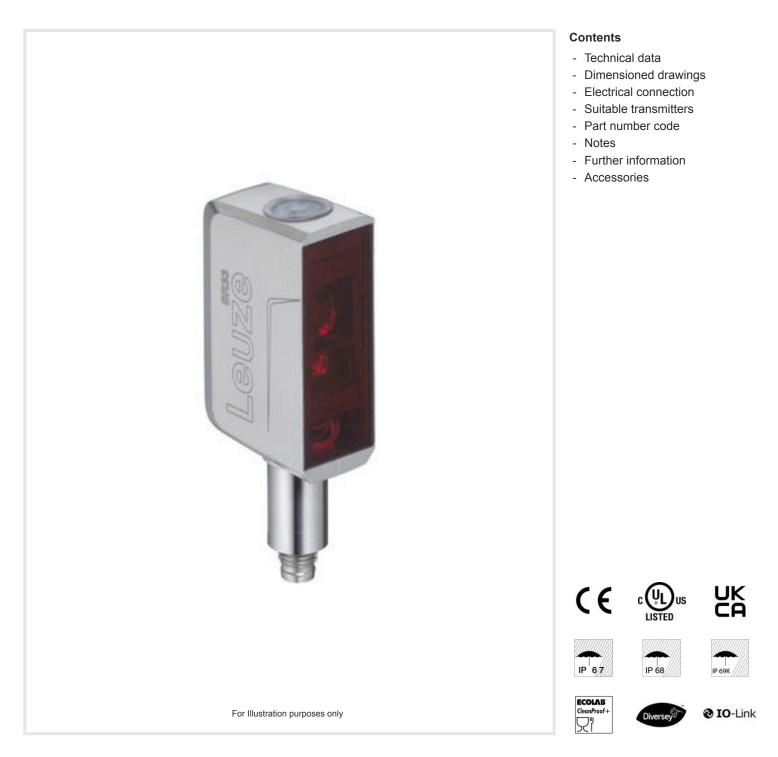


Technical data sheet Throughbeam photoelectric sensor receiver Part no.: 50150366 LE33CPP/LG-M8



The Sensor People In der Braike 1, D-73277 Owen/Germany

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We reserve the right to make technical

Technical data

SIO-mode support

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Basic data

Basic	c data	
Series	5	33C
Opera	ating principle	Throughbeam principle
Devic	e type	Receiver
Optic	cal data	
Opera	ating range	0 25 m
	ating range	Guaranteed operating range
-	ating range limit	0 30 m
	ating range limit	Typical operating range
-	rical data	·) [
Proto	ctive circuit	Polarity reversal protection
FIOLE		
		Short circuit protected
Po	rformance data	
	pply voltage U _B	10 30 V, DC, Incl. residual ripple
	sidual ripple	$0 \dots 15 \%$, From U _P
	en-circuit current	0 20 mA
Opt	on-onour ourrent	v 20 IIIA
0	Itputs	
	mber of digital switching outputs	2 Piece(s)
	0	
5	Switching outputs	
	Voltage type	DC
5	Switching current, max.	100 mA
5	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)
	Curitabing autout 2	
	Switching output 2 Assignment	Connection 1, pin 2
	Switching element	Transistor, Push-pull
	-	Dark switching (PNP)/light switching
	Switching principle	(NPN)
Time	behavior	
Switcl	hing frequency	1,500 Hz
Respo	onse time	0.33 ms
Readi	ness delay	300 ms
Interf		
Туре		IO-Link
10-	Link	
COM mode		COM2
Pro	ofile	Smart sensor profile
Min	n. cycle time	COM2 = 2.3 ms
Fra	ime type	2.5
Spe	ecification	V1.1
Dev	vice ID	6118

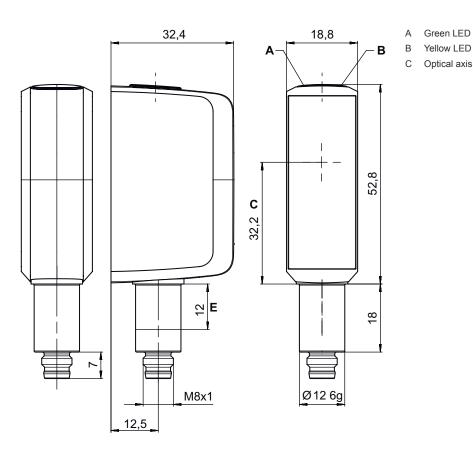
Yes

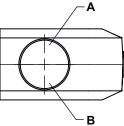
Connection 1	
Function	Signal IN
	Signal OUT
	Voltage supply
Type of connection	Connector
Thread size	M8
Туре	Male
Material	Stainless steel
No. of pins	4 -pin
Mechanical data	
Dimension (W x H x L)	18.8 mm x 52.8 mm x 32.4 mm
Housing material	Stainless steel
Material of operational control	Plastic (POM 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	
Certifications Degree of protection	IP 67
	IP 67 IP 68
	IP 68
Degree of protection	IP 68 IP 69K
Degree of protection Protection class	IP 68 IP 69K III
Degree of protection Protection class Approvals	IP 68 IP 69K III c UL US
Degree of protection Protection class Approvals Standards applied	IP 68 IP 69K III c UL US
Degree of protection Protection class Approvals Standards applied Classification	IP 68 IP 69K III c UL US IEC 60947-5-2
Degree of protection Protection class Approvals Standards applied Classification Customs tariff number	IP 68 IP 69K III c UL US IEC 60947-5-2 85365019
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Dimensioned drawings



All dimensions in millimeters





Electrical connection

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

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 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
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
Constitutes	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.