

Technical data sheet Throughbeam photoelectric sensor receiver Part no.: 50150339 LE35CPP/LG-M12



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We reserve the right to make technical

Technical data

SIO-mode support

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Basic data

B	asic data			
Se	eries	35C		
0	perating principle	Throughbeam principle Receiver		
De	evice type			
0	ptical data			
0	perating range	0 25 m		
0	perating range	Guaranteed operating range		
0	perating range limit	0 30 m		
0	perating range limit	Typical operating range		
E	ectrical data		M	
Pr	otective circuit	Polarity reversal protection Short circuit protected	Di Ho Ma	
	Performance data		Но	
	Supply voltage U _B	10 30 V, DC, Incl. residual ripple		
	Residual ripple	0 15 %, From U _B	St	
	Open-circuit current	0 20 mA		
	O strate		Le	
	Outputs Number of digital switching outputs	2 Piece(s)	Ne	
	Number of digital switching outputs	21 1666(3)	Но	
	Switching outputs		Ту	
	Voltage type	DC	-	
	Switching current, max.	100 mA	Co	
	Switching voltage	high: ≥(U _B -2.5V)		
		low: ≤ 2.5 V		
			_	
	Switching output 1		Er	
	Assignment	Connection 1, pin 4	Ar	
	Switching element	Transistor, Push-pull	Ar	
	Switching principle	IO-Link / light switching (PNP)/dark swit- ching (NPN)		
			C	
	Switching output 2		De	
	Assignment	Connection 1, pin 2		
	Switching element	Transistor, Push-pull		
	Switching principle	Dark switching (PNP)/light switching (NPN)	Pr Ap	
Ti	me behavior		St	
S١	vitching frequency	1,500 Hz	CI	
Re	esponse time	0.33 ms		
Re	eadiness delay	300 ms	EC	
In	terface		EC	
Ту	ре	IO-Link	EC	
	IO-Link		EC	
	COM mode	COM2	EC	
	Profile	Smart sensor profile	EC	
	Min. cycle time	COM2 = 2.3 ms	EC	
	Frame type	2.5	ET	
	Specification	V1.1	ET	
	Device ID	6118	ET	

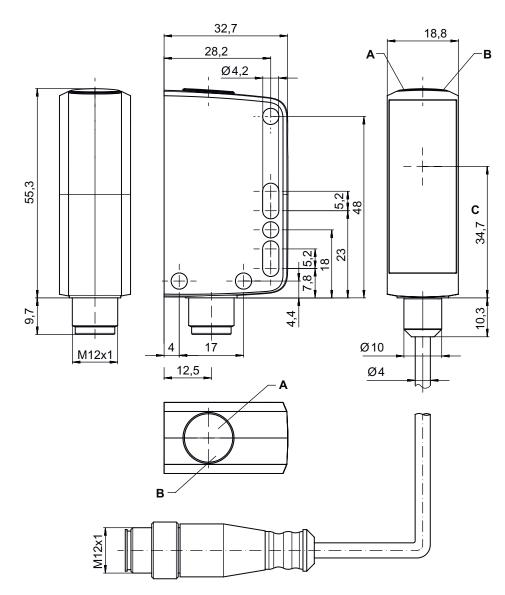
Yes

Connection 1	
Function	Signal IN
	Signal OUT
	Voltage supply
Type of connection	Connector
Thread size	M12
Туре	Male
Material	Stainless steel
No. of pins	4 -pin
Encoding	A-coded
Mechanical data	
Dimension (W x H x L)	18.8 mm x 55.3 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	$Ra \le 0.8$, 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	Through-hole mounting
	Via optional mounting device
Compatibility of materials	CleanProof+ ECOLAB
	Johnson Diversey
Environmental data	·····,
Ambient temperature, operation	-40 70 °C
	-40 70 °C -40 70 °C
Ambient temperature, operation	
Ambient temperature, operation Ambient temperature, storage Certifications	
Ambient temperature, operation Ambient temperature, storage	-40 70 °C
Ambient temperature, operation Ambient temperature, storage Certifications	-40 70 °C IP 67
Ambient temperature, operation Ambient temperature, storage Certifications	-40 70 °C IP 67 IP 68
Ambient temperature, operation Ambient temperature, storage Certifications Degree of protection	-40 70 °C IP 67 IP 68 IP 69K
Ambient temperature, operation Ambient temperature, storage Certifications Degree of protection Protection class	-40 70 °C IP 67 IP 68 IP 69K III
Ambient temperature, operation Ambient temperature, storage Certifications Degree of protection Protection class Approvals	-40 70 °C IP 67 IP 68 IP 69K III c UL US
Ambient temperature, operation Ambient temperature, storage Certifications Degree of protection Protection class Approvals Standards applied	-40 70 °C IP 67 IP 68 IP 69K III c UL US
Ambient temperature, operation Ambient temperature, storage Certifications Degree of protection Protection class Approvals Standards applied Classification	-40 70 °C IP 67 IP 68 IP 69K III c UL US IEC 60947-5-2
Ambient temperature, operation Ambient temperature, storage Certifications Degree of protection Protection class Approvals Standards applied Classification Customs tariff number	-40 70 °C IP 67 IP 68 IP 69K III c UL US IEC 60947-5-2 85365019
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Dimensioned drawings



All dimensions in millimeters



- A Green LED
- B Yellow LED
- C Optical axis

Electrical connection

Connection 1

Function	Signal IN
	Signal OUT
	Voltage supply
Type of connection	Connector
Thread size	M12
Туре	Male
Material	Stainless steel
No. of pins	4 -pin
Encoding	A-coded

Electrical connection

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Pin	Pin assignment
1	V+
2	OUT 2
3	GND
4	IO-Link / OUT 1

Suitable transmitters

 Part no.	Designation	Article	Description
50150336	LS35CPP/8X-M12	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, M12, Stainless steel, 4 -pin

Part number code

Part designation: AAA35C d EE.GGH/iJ-K

Operating principle LS35C: Throughbeam photoelectric sensor transmitter LE35C: Throughbeam photoelectric sensor receiver PRK35C: Retro-reflective photoelectric sensor with polarization filter HT35C: Diffuse reflection sensor with background suppression DRT35C: Dynamic reference diffuse sensor
Light type n/a: red light l: infrared light
Light source n/a: LED PP: Power PinPoint LED L1: laser class 1
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
Operating range adjustment 1: 270° potentiometer 2: multiturn potentiometer 3: teach-in via button
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) 4: PNP transistor output, light switching 6: push-pull switching output, PNP light switching, NPN dark switching 1: IO-Link / light switching (NPN) / dark switching (PNP)

Part number code

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 P: PNP transistor output, dark switching 6: push-pull switching output, PNP light switching, NPN dark switching
к	Electrical connection n/a: cable, standard length 2000mm, 4-wire 200-M12: cable, length 200mm with M12 connector, 4-pin, axial (plug) M12: M12 connector, 4-pin (plug)
	Note
1	S A list with all available device types can be found on the Leuze website at www.leuze.com.

Notes

Observe intended use!
b 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

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

Accessories

Connection technology - Connection unit

	Part no.	Designation	Article	Description
CALL PRINT	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

Accessories

Connection technology - Connection cables

		Part no.	Designation	Article	Description
	Ŵ	50130657	KD U-M12-4A-P1- 050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PUR
	Ŵ	50148350	KD U-M12-4A-T0-050 F+B	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: TPE

Mounting technology - Mounting brackets

 Part no.	Designation	Article	Description
50118543	BT 300M.5	Mounting bracket	Design of mounting device: Angle, L-shape Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type, Suited for M4 screws Type of mounting device: Adjustable Material: Stainless steel

Mounting technology - Rod mounts

	Part no.	Designation	Article	Description
:	50117252	BTU 300M-D12	Mounting system	Design of mounting device: Mounting system Fastening, at system: For 12 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type, Suited for M4 screws Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal
-	50120425	BTU 300M.5-D12	Mounting system	Design of mounting device: Mounting system Fastening, at system: For 12 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type, Suited for M4 screws Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Stainless steel

Note

No. A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.

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