

# **Technical data sheet** Throughbeam photoelectric sensor receiver Part no.: 50150341

LE35CPP/LG-200-M12



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We reserve the right to make technical

#### **Technical data**

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Specification

SIO-mode support

Device ID

Bas	ic data		Connection 1
Series		35C	Function
Operating principle		Throughbeam principle	
Devi	ice type	Receiver	-
			Type of connection Cable length
Opt	ical data		Sheathing materi
Оре	rating range	0 25 m	Cable color
Оре	rating range	Guaranteed operating range	Wire cross section
Оре	rating range limit	0 30 m	Thread size
Оре	rating range limit	Typical operating range	Туре
Elor	atrical data		Material
Elec	ctrical data		No. of pins
Prot	ective circuit	Polarity reversal protection	Encoding
		Short circuit protected	
_			Mechanical data
-	erformance data	10 30 V, DC, Incl. residual ripple	Dimension (W x H x
	upply voltage U <sub>B</sub> esidual ripple	$0 \dots 15 \%$ , From U <sub>P</sub>	Housing material
	pen-circuit current	0 20 mA	Material of operatio
Ū		0201197	
0	outputs		Housing roughness
Ν	umber of digital switching outputs	2 Piece(s)	Stainless steel hous
	Switching outputs	DC.	Lens cover material
	Voltage type	DC 100 mA	
	Switching current, max. Switching voltage		Net weight
	Switching voltage	high: ≥(U <sub>B</sub> -2.5V) Iow: ≤ 2.5 V	Housing color
		10W. = 2.0 V	Type of fastening
	Switching output 1		Compatibility of ma
	Assignment	Connection 1, pin 4	compationity of ma
	Switching element	Transistor, Push-pull	
	Switching principle	IO-Link / light switching (PNP)/dark switching (NPN)	Environmental da
	Switching output 2		Ambient temperatu
	Switching output 2 Assignment	Connection 1, pin 2	Ambient temperatu
	Switching element	Transistor, Push-pull	
	Switching principle	Dark switching (PNP)/light switching (NPN)	Certifications
Tim	e behavior		Degree of protectio
Swit	ching frequency	1,500 Hz	Protection class
	ponse time	0.33 ms	Approvals
Read	diness delay	300 ms	Standards applied
Inte	rface		
Туре	9	IO-Link	
IC	D-Link		
	OM mode	COM2	
	rofile	Smart sensor profile	
М	in. cycle time	COM2 = 2.3 ms	
	rame type	2.5	
-	100		

V1.1

6118

Yes

	Connection 1		
	Function	Signal IN	
		Signal OUT	
		Voltage supply	
	Type of connection	Cable with connector	
	Cable length	200 mm	
	Sheathing material	PVC	
	Cable color	Black	
	Wire cross section	0.2 mm²	
	Thread size	M12	
	Туре	Male	
	Material	Stainless steel	
	No. of pins	4 -pin	
	Encoding	A-coded	
M	echanical data		
Di	mension (W x H x L)	18.8 mm x 55.3 mm x 32.4 mm	
Ho	ousing material	Stainless steel	
Material of operational control		Plastic (POM Hostaform C9021, copoly- ester Tritan TX1001), non-diffusive	
Ho	ousing roughness	$Ra \le 0.8$ , Typical value for the stainless steel housing	
Stainless steel housing		AISI 316L, DIN X2CrNiMo17132, W. No1.4404	
Le	ens cover material	Plastic (PMMA+) with scratch-resistant Indium protective coating	
Ne	et weight	120 g	
Ho	ousing color	Silver	
Ту	pe of fastening	Through-hole mounting	
		Via optional mounting device	
С	ompatibility of materials	CleanProof+	
		ECOLAB	
		Johnson Diversey	
E	nvironmental data		
A	nbient temperature, operation	-40 70 °C	
A	nbient temperature, storage	-40 70 °C	
C	ertifications		
D٩	egree of protection	IP 67	
- (	-3 Protocion	IP 68	
		IP 69K	
Pr	rotection class		

c UL US

IEC 60947-5-2

## **Technical data**

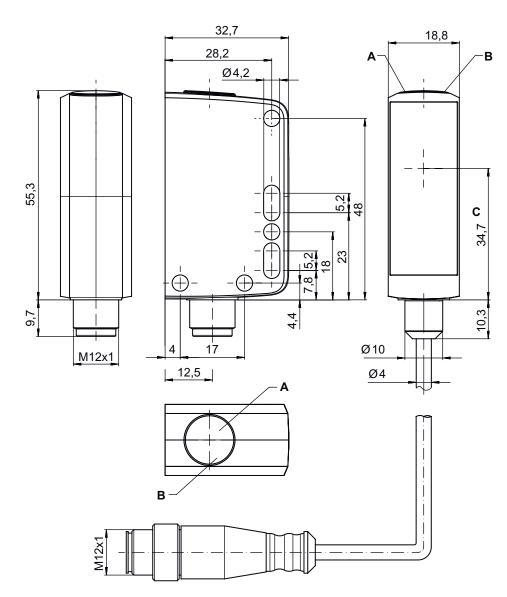
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ECLASS 8.0	27270901
ECLASS 9.0	27270901
ECLASS 10.0	27270901
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ECLASS 12.0	27270901
ECLASS 13.0	27270901
ECLASS 14.0	27270901
ECLASS 15.0	27270901
ETIM 5.0	EC002716
ETIM 6.0	EC002716
ETIM 7.0	EC002716
ETIM 8.0	EC002716
ETIM 9.0	EC002716
ETIM 10.0	EC002716

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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	Cable with connector
Cable length	200 mm
Sheathing material	PVC
Cable color	Black

#### **Electrical connection**

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#### **Connection 1**

Wire cross section	0.2 mm <sup>2</sup>	
Thread size	M12	
Туре	Male	
Material	Stainless steel	
No. of pins	4 -pin	
Encoding	A-coded	

#### Pin Pin assignment

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

#### Suitable transmitters

 Part no.	Designation	Article	Description
50150338	LS35CPP/8X-200- 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: Cable with connector, 200 mm, M12, Stainless steel, 4 -pin

#### Part number code

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

AAA35C	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
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
Η	Operating range adjustment 1: 270° potentiometer 2: multiturn potentiometer 3: teach-in via button
Ĩ	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)			
Ν	Note			
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
	W 0 V	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
•		50148349	KD U-M12-4A-T0-020 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: 2.000 mm Sheathing material: TPE
	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

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### Accessories





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