

### **Technical data sheet** Throughbeam photoelectric sensor receiver Part no.: 50150345 LE35CI.XR1/LG-M12



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

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#### **Technical data**

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#### Basic data

Profile

Min. cycle time

Frame type

Device ID

Specification

SIO-mode support

	Connection 1
35C	Function
Throughbeam principle	
Receiver	
Detection of products in bag packaging	Type of connection Thread size
	Туре
0 100	Material
	No. of pins
	Encoding
Typical operating range	Mechanical data
	Dimension (W x H x
Polarity reversal protection	Housing material
Short circuit protected	Material of operatio
	Housing roughness
10 30 V, DC, Incl. residual ripple	Stainless steel hous
0 15 %, From U <sub>B</sub>	
0 20 mA	Lens cover material
	Net weight
2 Piece(s)	Housing color
	Type of fastening
DC	Compatibility of ma
100 mA	
high: ≥(U <sub>B</sub> -2.5V)	
$low: \leq 2.5 V$	Operation and dis
	Operation and dis
Connection 1, pin 4	Operational control
	Function of the ope
IO-Link / light switching (PNP)/dark swit-	Environmental da
	Ambient temperatu
	Ambient temperatur
Connection 1, pin 2	
Transistor, Push-pull	Certifications
Dark switching (PNP)/light switching (NPN)	Degree of protectio
100 Hz	Protection class Approvals
5 ms	Standards applied
300 ms	Standards applied
IO-Link	
COM2	
	Throughbeam principle Receiver Detection of products in bag packaging 0 180 m Guaranteed operating range 0 220 m Typical operating range Polarity reversal protection Short circuit protected 10 30 V, DC, Incl. residual ripple 0 15 %, From U <sub>B</sub> 0 20 mA 2 Piece(s) DC 100 mA high: ≥(U <sub>B</sub> -2.5V) low: ≤ 2.5 V Connection 1, pin 4 Transistor, Push-pull lO-Link / light switching (PNP)/dark swit- ching (NPN) 100 Hz 5 ms 300 ms

Smart sensor profile

COM2 = 2.3 ms

2.5

V1.1

6117

Yes

	T difection	oignai 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
м	lechanical data	
IVI		
Di	imension (W x H x L)	18.8 mm x 55.3 mm x 32.4 mm
H	ousing material	Stainless steel
М	aterial of operational control	Plastic (POM Hostaform C9021, copoly- ester Tritan TX1001), non-diffusive
H	ousing roughness	$Ra \le 0.8$ , Typical value for the stainless steel housing
S	tainless steel housing	AISI 316L, DIN X2CrNiMo17132, W. No1.4404
Le	ens cover material	Plastic (PMMA+) with scratch-resistant Indium protective coating
N	et weight	120 g
H	ousing color	Silver
Ту	/pe of fastening	Through-hole mounting
		Via optional mounting device
C	ompatibility of materials	CleanProof+
		ECOLAB
		Johnson Diversey
0	peration and display	
0	perational controls	270° potentiometer
	unction of the operational control	Sensitivity adjustment
	·	
E	nvironmental data	
A	mbient temperature, operation	-40 70 °C
A	mbient temperature, storage	-40 70 °C
С	ertifications	
D	egree of protection	IP 67
		IP 68
		IP 69K
P	rotection class	III
A	pprovals	c UL US

IEC 60947-5-2

Signal IN

#### **Technical data**

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

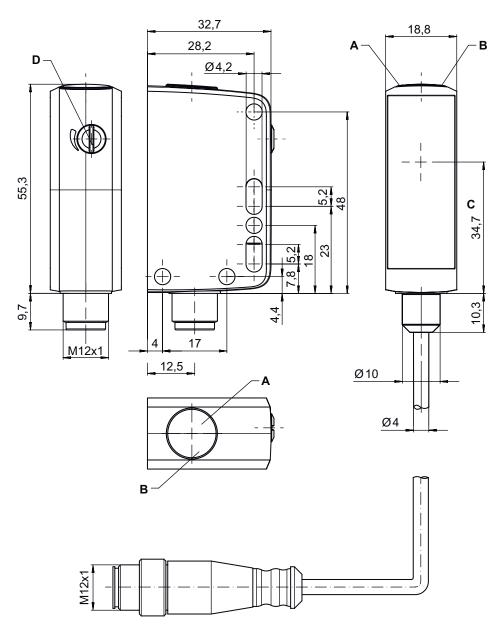
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#### **Dimensioned drawings**



All dimensions in millimeters



A Green LED

B Yellow LED

C Optical axis

#### **Electrical connection**

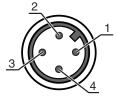
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#### **Connection 1**

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

# Pin Pin assignment 1 V+ 2 OUT 2





#### **Suitable transmitters**

Part no.	Designation	Article	Description
50150348	LS35CI.XR1/XX-M12	Throughbeam photoelectric sensor transmitter	Application: Detection of products in bag packaging Operating range limit: 0 220 m Light source: LED, Infrared Supply voltage: DC Connection: Connector, M12, Stainless steel, 4 -pin Operational controls: 270° potentiometer
50150342	LS35CI.XXR/XX-M12	Throughbeam photoelectric sensor transmitter	Application: Detection of products in bag packaging Operating range limit: 0 400 m Light source: LED, Infrared 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 I: 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

#### Part number code



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) 4: PNP transistor output, light 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 P: PNP transistor output, dark switching
к	Electrical connection n/a: cable, standard length 2000 mm, 4-wire 200-M12: cable, length 200 mm with M12 connector, 4-pin, axial (plug) M12: M12 connector, 4-pin (plug)
Note	
A list wi	th 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.					
Solution 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
C. LEWIS	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

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### 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
• V	Ŵ	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
<b>(</b>	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

#### Accessories





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