

Technical data sheet Throughbeam photoelectric sensor transmitter

Part no.: 50150348

LS35CI.XR1/XX-M12



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Technical data



Basic data

Series	35C
Operating principle	Throughbeam principle
Device type	Transmitter
Application	Detection of products in bag packaging

Optical data

Operating range	0 180 m
Operating range	Guaranteed operating range
Operating range limit	0 220 m
Operating range limit	Typical operating range
Light source	LED, Infrared
Wavelength	860 nm
Transmitted-signal shape	Pulsed
LED group	Exempt group (in acc. with EN 62471)

Electrical data

Protective circuit	Polarity reversal protection
	Short circuit protected
Performance data	
Supply voltage U _B	10 30 V, DC, Incl. residual ripple
Residual ripple	0 15 %, From U _B
Open-circuit current	0 20 mA

Time behavior

Readiness	delay	300 ms
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Connection

Connection 1	
Function	Voltage supply
Type of connection	Connector
Thread size	M12
Туре	Male
Material	Stainless steel
No. of pins	4 -pin
Encoding	A-coded

Mechanical data

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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, copolyester Tritan TX1001), non-diffusive
Housing roughness	Ra ≤ 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

Operation and display

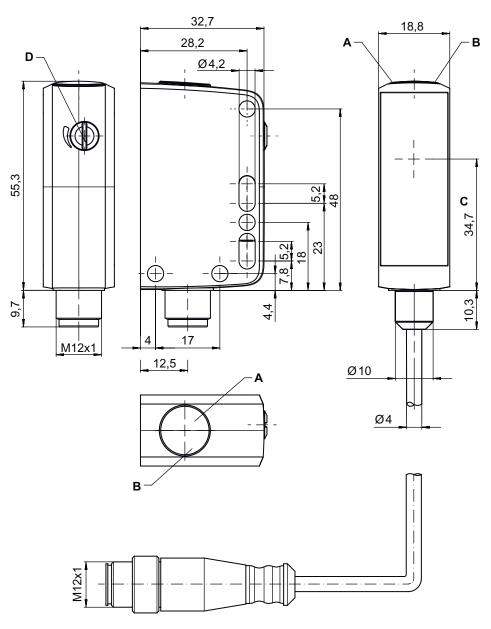
Operational controls	270° potentiometer
Function of the operational control	Sensitivity adjustment
Environmental data	
Ambient temperature, operation	-40 70 °C
Ambient temperature, storage	-40 70 °C
Certifications	
Degree of protection	IP 67
	IP 68
	IP 69K
Protection class	III
Approvals	c UL US
Standards applied	IEC 60947-5-2
Classification	

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Dimensioned drawings



All dimensions in millimeters



- Green LED
- В Yellow LED
- Optical axis

Electrical connection

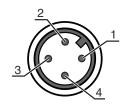
Connection 1

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

Electrical connection



Pin	Pin assignment
1	V+
2	n.c.
3	GND
4	n.c.



Suitable receivers

Part no.	Designation	Article	Description
50150345	LE35CI.XR1/LG-M12	Throughbeam photoelectric sensor receiver	Application: Detection of products in bag packaging Operating range limit: 0 220 m Supply voltage: DC Digital switching outputs: 2 Piece(s) Switching output 1: Transistor, Push-pull, IO-Link / light switching (PNP)/dark switching (NPN) Switching output 2: Transistor, Push-pull, Dark switching (PNP)/light switching (NPN) Switching ortput 2: Transistor, Push-pull, Dark switching (PNP)/light switching (NPN) Switching frequency: 100 Hz Interface: IO-Link Connection: Connector, M12, Stainless steel, 4 -pin Operational controls: 270° potentiometer

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
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

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 **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 with 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.
- 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
- Light source: Average life expectancy 100,000 h at an ambient temperature of 25 °C
- · Sum of the output currents for both outputs 100 mA

Accessories

Connection technology - Connection unit

	Part no.	Designation	Article	Description
THE PARTY OF THE P	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
		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
		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

Accessories



Note



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