

Technical data sheet Throughbeam photoelectric sensor transmitter Part no.: 50150350 LS35CI.XR1/XX-200-M12



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We reserve the right to make technical

35C

Transmitter

0 ... 180 m

0 ... 220 m

Throughbeam principle

Guaranteed operating range

Typical operating range LED, Infrared 860 nm Pulsed

Detection of products in bag packaging

Technical data

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Basic data

Series		
Operating principle		
Device type		
Application		

Optical data

Operating range
Operating range
Operating range limit
Operating range limit
Light source
Wavelength
Transmitted-signal shape
LED group

Electrical data

Protective circuit

Performance data

Open-circuit current

Supply voltage U_B Residual ripple Polarity reversal protection Short circuit protected

Exempt group (in acc. with EN 62471)

10 ... 30 V, DC, Incl. residual ripple 0 ... 15 %, From U_B 0 ... 20 mA

Time behavior

Readiness delay

Connection

Connection 1					
Function	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				

300 ms

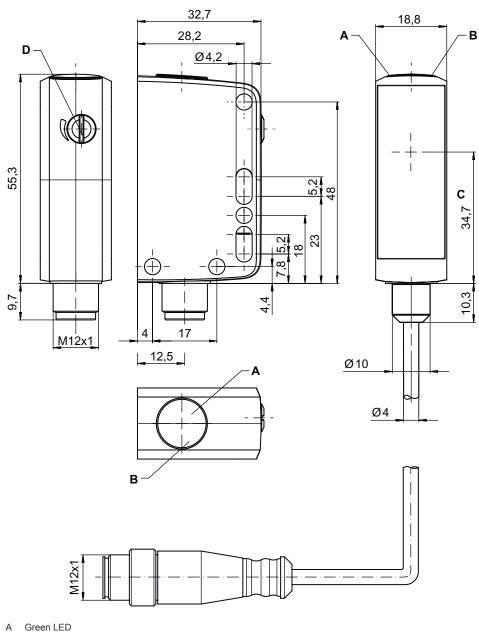
Mechanical data

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 ≤ 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
, and for temperature, etchage	10 10 0
Certifications	
Degree of protection	IP 67
	IP 68
	IP 69K
Protection class	
Approvals	c UL US
Standards applied	IEC 60947-5-2
Classification	
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

Dimensioned drawings



All dimensions in millimeters



В Yellow LED

С Optical axis

Electrical connection

Connection 1

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Electrical connection

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Connection 1

Wire cross section	0.2 mm²	
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No. of pins	4 -pin	
Encoding	A-coded	

Pin Pin assignment

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

Suitable receivers

 Part no.	Designation	Article	Description
50150347	LE35CI.XR1/LG-200- 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 frequency: 100 Hz Interface: IO-Link Connection: Cable with connector, 200 mm, 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 l: 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

Part number code



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 6: push-pull switching output, PNP light switching, NPN dark switching 1: IO-Link / light switching (NPN) / dark switching (PNP)		
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 200 mm with M12 connector, 4-pin, axial (plug) M12: M12 connector, 4-pin (plug)		
Ν	lote		
A list with all available device types can be found on the Leuze website at www.leuze.com.			

Notes

	Observe intended use!				
	the 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.				
Solution of 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
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



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





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