

Technical data sheet Throughbeam photoelectric sensor receiver

Part no.: 50140155

LE412B/P

For Illustration purposes only

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Technical data



Basic data

412B
Throughbeam principle
Receiver
see transmitter
Polarity reversal protection
Short circuit protected
10 36 V, DC, Incl. residual ripple
, , , , , , , , , , , , , , , , , , , ,
0 20 %, From U _B
0 19 IIIA
1 Piece(s)
Digital switching output
DC
200 mA
To estate PND
Transistor, PNP
Dark switching
1,000 Hz
0.5 ms
20 ms

Mechanical data

Dimension (Ø x L)	12 mm x 51 mm
Thread size	M12 x 1 mm
Housing material	Metal
Metal housing	Chromed brass
Lens cover material	Glass
Net weight	100 g
Housing color	Silver

Operation and display

Type of display	LED
Number of LEDs	2 Piece(s)

Environmental data

Ambient temperature, operation	-25	55 '	°C
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Certifications

Degree of protection	IP 67
Protection class	III
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

Number of connections

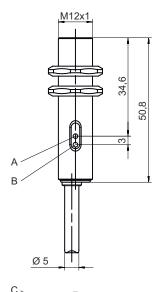
Connection	
Function	Signal OUT
	Voltage supply
Type of connection	Cable
Cable length	2,000 mm
Sheathing material	PVC
Cable color	Black
Number of conductors	3 -wire
Wire cross section	0.34 mm²

1 Piece(s)

Dimensioned drawings

Leuze

All dimensions in millimeters



- Green LED
- Yellow LED
- Optical axis

Electrical connection

Connection 1

Function	Signal OUT	
Tunction		
	Voltage supply	
Type of connection	Cable	
Cable length	2,000 mm	
Sheathing material	PVC	
Cable color	Black	
Number of conductors	3 -wire	
Wire cross section	0.34 mm ²	

Conductor color Conductor assignment

Brown	V+	
Black	OUT 1	
Blue	GND	

Operation and display

LED	Display	Meaning
1	Green, continuous light	Function reserve
2	Yellow, continuous light	Switching output/switching state active

Suitable transmitters



	Part no.	Designation	Operating range Operating range limit	Description
OF S	50140153	LS412B/D	0 10 m 0 10 m	Special version: Deactivation input Operating range limit: 0 10 m Light source: LED, Red Supply voltage: DC Deactivation inputs: 1 Piece(s) Connection: Cable, 2,000 mm, 3 -wire

Part number code

Part designation: AAA412BGG.H/ii-K

AAA412B	Operating principle / construction LS412B: Throughbeam photoelectric sensor transmitter LE412B: Throughbeam photoelectric sensor receiver ET412B: Energetic diffuse reflection sensor PRK412B: Retro-reflective photoelectric sensor with polarization filter
GG	Light source n/a: LED L2: laser class 2
Н	Operating range adjustment 1: 270° potentiometer
ii	Switching output / function / OUT1OUT2 (OUT1 = pin 4, OUT2 = pin 2) 2: NPN transistor output, light switching N: NPN transistor output, dark switching 4: PNP transistor output, light switching P: PNP transistor output, dark switching D: Deactivation input (deactivation with low signal) X: pin not used
К	Electrical connection n/a: cable, standard length 2000 mm, 3-wire 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.
- \$ Only use the product in accordance with its intended use.





Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
0	50113549	BT D12M.5	Mounting bracket	Diameter, inner: 12 mm Design of mounting device: Angle, L-shape Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Rigid Material: Stainless steel





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