



the sensor people





Part no.: 50140153 LS412B/D Throughbeam photoelectric sensor transmitter







Figure can vary

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Technical data

412B
Throughbeam principle
Transmitter
Hallomitter
Deactivation input
Deactivation input
Cuaranteed energting range
Guaranteed operating range 0 10 m
LED , Red
660 nm
Pulsed
Exempt group (in acc. with EN 62471)
Polarity reversal protection Short circuit protected
·
10 36 V , DC , Incl. residual ripple
0 20 % , From U _B
0 15 mA
0 13 IIIA
1 Piece(s)
111000(0)
DC
50
Low
Low
Low
Low
Cable
Cable Signal IN
Cable Signal IN Voltage supply
Cable Signal IN Voltage supply 2,000 mm
Cable Signal IN Voltage supply 2,000 mm PVC
Cable Signal IN Voltage supply 2,000 mm PVC Black
Cable Signal IN Voltage supply 2,000 mm PVC Black 3 -wire
Cable Signal IN Voltage supply 2,000 mm PVC Black 3 -wire
Cable Signal IN Voltage supply 2,000 mm PVC Black 3 -wire
Cable Signal IN Voltage supply 2,000 mm PVC Black 3 -wire 0.34 mm²
Cable Signal IN Voltage supply 2,000 mm PVC Black 3 -wire 0.34 mm²
Cable Signal IN Voltage supply 2,000 mm PVC Black 3 -wire 0.34 mm²
Cable Signal IN Voltage supply 2,000 mm PVC Black 3 -wire 0.34 mm² M12 x 1 mm 12 mm x 51 mm Metal , Chromed brass

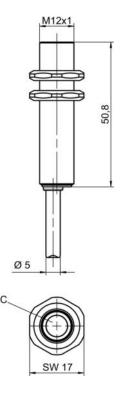


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Environmental data				
Ambient temperature, operation	-25 55 °C			
Certifications				
Degree of protection	IP 67			
Protection class	III			
Certifications	c UL US			
Standards applied	IEC 60947-5-2			
Classification				
Customs tariff number	85365019			
eCl@ss 8.0	27270901			
eCl@ss 9.0	27270901	27270901		
ETIM 5.0	EC002716	EC002716		

Dimensioned drawings

All dimensions in millimeters



C Optical axis

Electrical connection

Connection 1	
Type of connection	Cable



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Connection 1		
Function	Signal IN Voltage supply	
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	IN 1
Blue	GND

Suitable receivers

	Part no.	Designation	Article	Description
- GES	50140158	LE412B/2	Throughbeam photoelectric sensor receiver	Supply voltage: DC Digital switching outputs: 1 Piece(s) Switching output 1: Transistor, NPN, Light switching Switching frequency: 1,000 Hz Connection: Cable, 2,000 mm, 3 -wire
dis	50140154	LE412B/4	Throughbeam photoelectric sensor receiver	Supply voltage: DC Digital switching outputs: 1 Piece(s) Switching output 1: Transistor, NPN, Light switching Switching frequency: 1,000 Hz Connection: Cable, 2,000 mm, 3 -wire
- GES	50140159	LE412B/N	Throughbeam photoelectric sensor receiver	Supply voltage: DC Digital switching outputs: 1 Piece(s) Switching output 1: Transistor, NPN, Dark switching Switching frequency: 1,000 Hz Connection: Cable, 2,000 mm, 3 -wire
- GES	50140155	LE412B/P	Throughbeam photoelectric sensor receiver	Supply voltage: DC Digital switching outputs: 1 Piece(s) Switching output 1: Transistor, PNP, Dark switching Switching frequency: 1,000 Hz 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		
lii	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		



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	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 electronic 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.

Accessories

Mounting technology - Mounting brackets

Part r	no. Designatio	n Article	Description
501135	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

Note

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

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