

Technical data sheet

Throughbeam photoelectric sensor transmitter

Part no.: 50140837

LS12

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For illustration purposes only



Technical data

Basic data

Series	12
Operating principle	Throughbeam principle
Device type	Transmitter
Application	Detection of small parts

Optical data

Operating range	0 ... 1 m (guaranteed operating range)
Operating range limit	(typical operating range)
Light source	LED, Red
Wavelength	630 nm
Transmitted-signal shape	Pulsed

Electrical data

Protective circuit	Overvoltage protection Polarity reversal protection
Performance data	
Supply voltage U_B	11 ... 26 V, DC, Incl. residual ripple
Current consumption, max.	14 mA
Residual ripple	10 %, From U_B

Time behavior

Response time	0.5 ms
Readiness delay	100 ms

Connection

Number of connections	1 Piece(s)
Connection 1	
Function	Voltage supply
Type of connection	Cable
Cable length	2,000 mm
Sheathing material	PVC
Cable color	Black
Number of conductors	2 -wire
Wire cross section	0.08 mm ²

Mechanical data

Dimension (W x H x L)	7.7 mm x 27.8 mm x 14 mm
Housing material	Plastic
Plastic housing	PC-PBT
Lens cover material	Plastic
Net weight	40 g
Housing color	Black

Operation and display

Type of display	LED
Number of LEDs	1 Piece(s)

Environmental data

Ambient temperature, operation	-25 ... 55 °C
Ambient temperature, storage	-25 ... 75 °C

Certifications

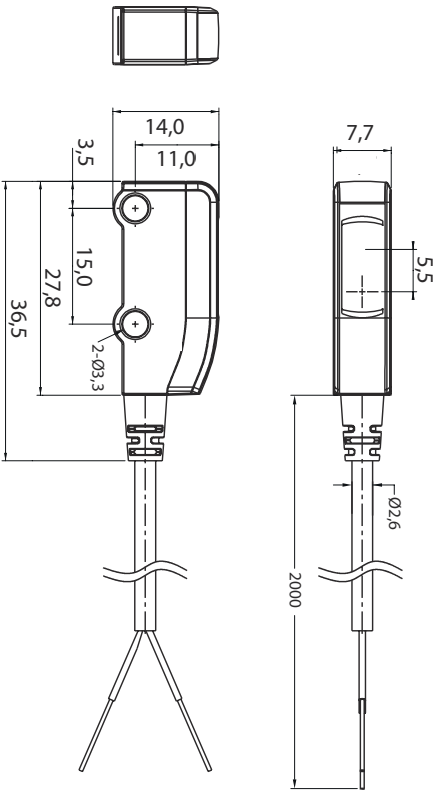
Degree of protection	IP 67
Standards applied	IEC 60947-5-2

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



Electrical connection

Connection 1

Function	Voltage supply
Type of connection	Cable
Cable length	2,000 mm
Sheathing material	PVC
Cable color	Black
Number of conductors	2 -wire
Wire cross section	0.08 mm²

Conductor color

Conductor assignment

Brown	V+
Blue	GND

Operation and display

LED Display Meaning

1	Green, continuous light	Operational readiness
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Suitable receivers

	Part no.	Designation	Operating range Operating range limit	Description
	50140114	LE12/2	0 ... 1 m	Application: Detection of small parts Light source: LED Supply voltage: DC Digital switching outputs: 1 Piece(s) Switching output 1: Transistor, NPN, Light switching Connection: Cable, 2,000 mm, 3 -wire

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.