

Technical data sheet

Throughbeam photoelectric sensor receiver

Part no.: 50140116

LE12/4

Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Operation and display
- Suitable transmitters
- Notes



For illustration purposes only



Technical data

Basic data

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

Optical data

Operating range	see transmitter
Light source	LED

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

Outputs

Number of digital switching outputs	1 Piece(s)
-------------------------------------	------------

Switching outputs

Type	Digital switching output
Voltage type	DC
Switching current, max.	50 mA

Switching output 1

Switching element	Transistor, PNP
Switching principle	Light switching

Time behavior

Response time	0.5 ms
Readiness delay	100 ms

Connection

Number of connections	1 Piece(s)
-----------------------	------------

Connection 1

Function	Signal IN 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	0.08 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	2 Piece(s)

Environmental data

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

Certifications

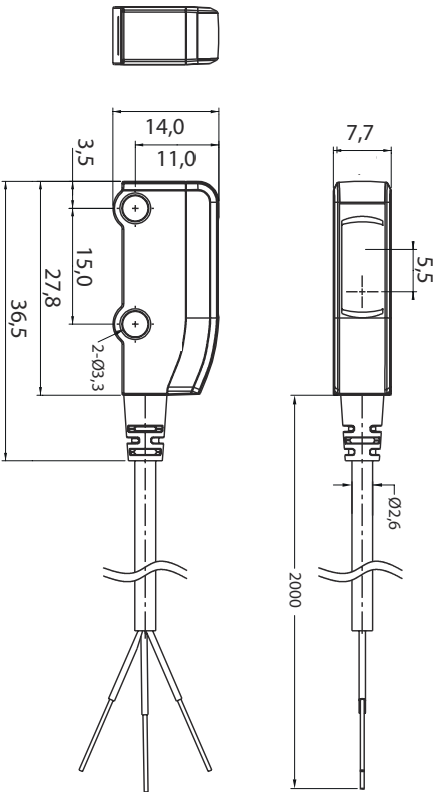
Degree of protection	IP 67
Standards applied	IEC 60947-5-2

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	Signal IN
	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	0.08 mm²

Conductor color

Conductor assignment

Brown	V+
Black	OUT
Blue	GND

Operation and display

LED	Display	Meaning
1	Green, continuous light	Operational readiness
2	Orange, continuous light	Object detected
	Orange, flashing	Overcurrent

Suitable transmitters

	Part no.	Designation	Operating range Operating range limit	Description
	50140837	LS12	0 ... 1 m	Application: Detection of small parts Light source: LED, Red Supply voltage: DC Connection: Cable, 2,000 mm, 2 -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.