

Technical data sheet Throughbeam photoelectric sensor transmitter

Part no.: 50147129

LS36/XX



Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Operation and display
- Suitable receivers
- Part number code
- Notes
- Further information
- Accessories









Technical data



Basic data

Series	36
Operating principle	Throughbeam principle
Device type	Transmitter

Optical data

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Electrical data

rotective circuit	Polarity reversal protection
	Short circuit protected
	Transient protection
Performance data	
Supply voltage U _B	10 30 V, DC, Incl. residual ripple
Residual ripple	0 15 %, From U _B
Open-circuit current	0 20 mA

Time behavior

Readiness delay 300 ms

Connection

Voltage supply
Cable
2,000 mm
PUR
Black
3 -wire
0.14 mm²

Mechanical data

Dimension (W x H x L)	20.5 mm x 76.3 mm x 44 mm
Housing material	Plastic
Plastic housing	PC-PBT
Lens cover material	Plastic / PMMA
Net weight	100 g
Housing color	Black
Type of fastening	Through-hole mounting
	Via optional mounting device

Operation and display

Environmental data	
Ambient temperature, operation	-40 60 °C
Ambient temperature, storage	-40 70 °C

2 Piece(s)

Certifications

Type of display Number of LEDs

Degree of protection	IP 67
Protection class	III
Certifications	c UL US
Standards applied	IEC 60947-5-2

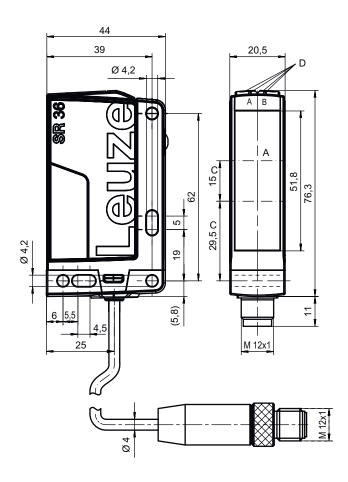
Classification

Glacomoation	
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
ETIM 5.0	EC002716
ETIM 6.0	EC002716
ETIM 7.0	EC002716
ETIM 8.0	EC002716
ETIM 9.0	EC002716

Dimensioned drawings

Leuze

All dimensions in millimeters



- Transmitter
- Optical axis
- DA Green LED
- DB Yellow LED

Electrical connection

Connection 1

Function	Voltage supply
Type of connection	Cable
Cable length	2,000 mm
Sheathing material	PUR
Cable color	Black
Number of conductors	3 -wire
Wire cross section	0.14 mm ²

Conductor color

Conductor assignment

Brown	V+	
Black	n.c.	
Blue	GND	

Operation and display

LED	Display	Meaning
1	Green, continuous light	Operational readiness
2	Yellow, continuous light	Transmitted beam active





Part no.	Designation	Article	Description
50147140	LE36.1/2	Throughbeam photoelectric sensor receiver	Operating range limit: 0 100 m Supply voltage: DC Digital switching outputs: 1 Piece(s) Switching output 1: Transistor, NPN, Light switching Switching frequency: 300 Hz Connection: Cable, 2,000 mm, 3 -wire Operational controls: 270° potentiometer
50147138	LE36.1/4	Throughbeam photoelectric sensor receiver	Operating range limit: 0 100 m Supply voltage: DC Digital switching outputs: 1 Piece(s) Switching output 1: Transistor, PNP, Light switching Switching frequency: 300 Hz Connection: Cable, 2,000 mm, 3 -wire Operational controls: 270° potentiometer
50147141	LE36.1/N	Throughbeam photoelectric sensor receiver	Operating range limit: 0 100 m Supply voltage: DC Digital switching outputs: 1 Piece(s) Switching output 1: Transistor, NPN, Dark switching Switching frequency: 300 Hz Connection: Cable, 2,000 mm, 3 -wire Operational controls: 270° potentiometer
50147139	LE36.1/P	Throughbeam photoelectric sensor receiver	Operating range limit: 0 100 m Supply voltage: DC Digital switching outputs: 1 Piece(s) Switching output 1: Transistor, PNP, Dark switching Switching frequency: 300 Hz Connection: Cable, 2,000 mm, 3 -wire Operational controls: 270° potentiometer

Part number code

Part designation: AAA36 D.E/FG-K

AAA36	Operating principle / construction HT36: Diffuse reflection sensor with background suppression LS36: Throughbeam photoelectric sensor transmitter LE36: Throughbeam photoelectric sensor receiver PRK36: Retro-reflective photoelectric sensor with polarization filter			
D	Light type n/a: red light l: infrared light			
Е	Equipment n/a: standard 1: 270° potentiometer D: Depolarizing media			
FG	Switching output / Function 2: NPN transistor output, light switching N: NPN transistor output, dark switching 4: PNP transistor output, light switching P: PNP transistor output, dark switching X: pin not used			
К	Electrical connection n/a: cable, standard length 2000 mm, 3-wire 200-M8: cable, length 200 mm with M8 connector, 4-pin, axial (plug) 200-M12: cable, length 200 mm with M12 connector, 4-pin, axial (plug) M12: M12 connector, 4-pin (plug)			

Note



 $\ ^{\mbox{\tiny b}}\ \mbox{A list with all available device types can be found on the Leuze website at www.leuze.com.}$

Notes





Observe intended use!



- \$ This product is not a safety sensor and is not intended as personnel protection.
- \$ The product may only be put into operation by competent persons.
- Only use the product in accordance with its intended use.

For UL applications:



- 🔖 For UL applications, use is only permitted in Class 2 circuits in accordance with the NEC (National Electric Code).
- 🖖 These proximity switches shall be used with UL Listed Cable assemblies rated 30V, 0.5A min, in the field installation, or equivalent (categories: CYJV/ CYJV7 or PVVA/PVVA7)

Further information

• Light source: Average life expectancy 100,000 h at an ambient temperature of 25 °C

Accessories

Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
£13	50105315	BT 46	Mounting device	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: Metal

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

Note



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

We reserve the right to make technical