



## Standard automation light grids ELG, ELG Short Range

ELG1-0150P571



**Model Name** > [ELG1-0150P571](#)  
**Part No.** > [1028333](#)



*Illustration may differ*

**At a glance**

- Up to 16 beams with 10 mm and 112 with 30 mm beam separation
- Range up to 5 m
- Potentiometer for sensitivity setting
- Ambient light up to 150,000 lux
- Tough, aluminum housing
- PNP/NPN output and a test input
- Optical synchronization

**Your benefits**

- Efficient and effective way to combine multiple sensors in one housing with one connector
- Simple commissioning thanks to a larger optical aperture angle and manual fine adjustment option
- Optical synchronization enables quick installation and cost-effective connection
- The ELG Short Range reliably detects objects, even under challenging ambient conditions



**Features**

Technology:	Sender/receiver
Task:	Switching light grid
Minimum detectable object (MDO):	≤Parallel beam: ≥ 35 mm ... 65 mm
Beam separation:	10 mm
Number of beams:	16
Detection height:	150 mm
Evaluation beams:	Parallel beam

**Performance**

Maximum range:	7 m
Minimum range:	≥0 mm
Working range:	5 m
Response time <sup>1)</sup> :	Parallel beam: ≥12 ms

<sup>1)</sup> With resistive load

**Interfaces**

Output type:	2 x PNP (Q and /Q)
Connection type:	Connector M12, 4-pin

Test input: PNP

### Mechanics/electronics

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Wave length:	880 nm
Supply voltage Vs <sup>1)</sup> :	DC 15 V ... 30 V
Power consumption <sup>2)</sup> :	< 100 mA
Power consumption sender <sup>3)</sup> :	< 100 mA
Power consumption receiver <sup>4)</sup> :	< 100 mA
Ripple:	< 5 Vpp
Output load capacitive:	100 nF
Output load inductive:	1 H
Initialization time:	1 s
Dimensions (W x H x D):	34 mm x 237 mm x 29 mm
Housing material:	Aluminum
Indication:	LED
Synchronization:	Optical
Enclosure rating:	IP 65
Circuit protection:	Output Q short-circuit protected Interference suppression VS connections reverse-polarity protected
Weight:	800 g
Front screen:	PMMA
Pulse rate:	250 kHz
Output mode <sup>5)</sup> :	Q dark switching

1) 2) 3) 4) Typical value    5) Q = active in case one beam is interrupted, /Q = active in case all beam are free

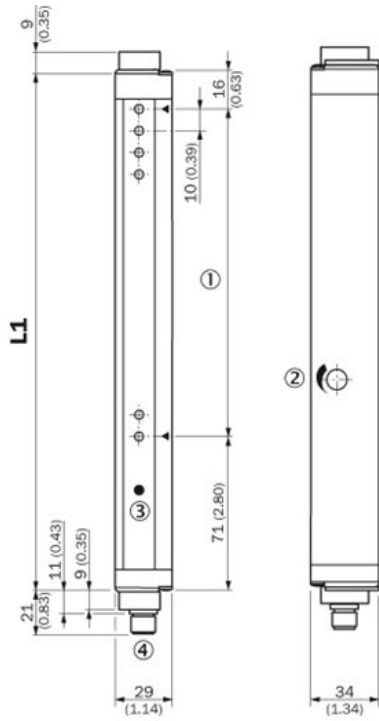
### Ambient data

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Protection class:	III
EMC:	EN 60947-5-2
Ambient temperature:	Operation: -25 ... 55 °C Storage: -40 ... 70 °C
Ambient light safety <sup>1)</sup> :	Indirect: ≤ 150,000 lx
Vibration resistance:	5 g, 10 Hz ... 55 Hz (IEC 68-2-6)
Shock load:	10 g/DIN EN 60068-2-29/16 ms

<sup>1)</sup> Sunlight

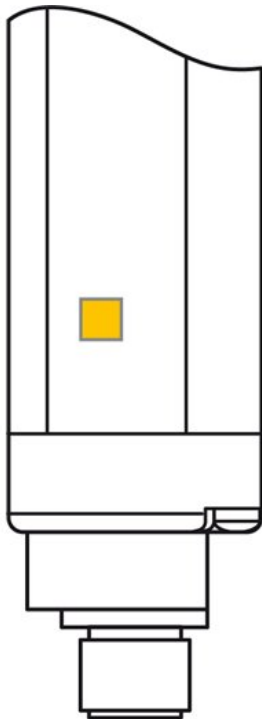
## Dimensional drawing



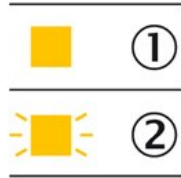
### L1

① 100 mm	187 (7.36)	1  Detection height
① 150 mm	237 (9.33)	2  Sensitivity adjustment
		3  Status indicator (ELGE) / Power on (ELGS)
		4  Connector M12, 4-pin

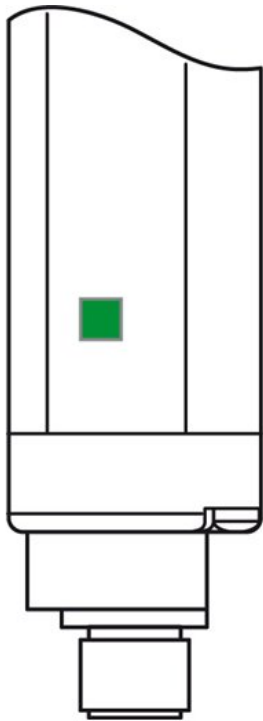
## LED display receiver



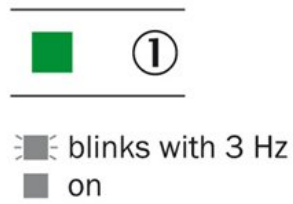
- |1| No object in the light path
- |2| Pollution indication



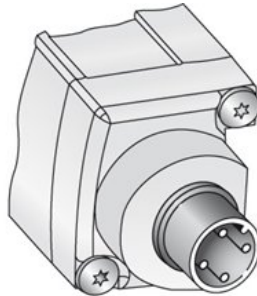
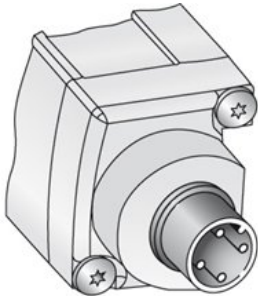
LED display sender



|1| Supply voltage

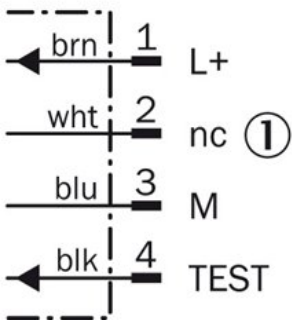


Connection type and diagram

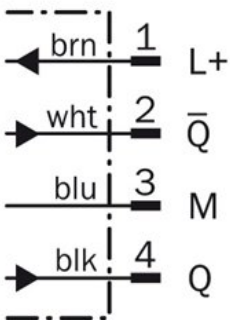


|1| not connected

Sender



Receiver



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