



Standard automation light grids ELG, ELG Short Range

ELG1-0100P533



Model Name > [ELG1-0100P533](#)
Part No. > [1026808](#)



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:	11
Detection height:	100 mm
Evaluation beams:	Multiple scan

Performance

Maximum range:	7 m
Minimum range:	≥0 mm
Working range:	3 m
Response time ¹⁾ :	Parallel beam: ≥14 ms

¹⁾ With resistive load

Interfaces

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

Test input:

PNP

Mechanics/electronics

Wave length:	880 nm
Supply voltage Vs ¹⁾ :	DC 15 V ... 30 V
Power consumption ²⁾ :	< 100 mA
Power consumption sender ³⁾ :	< 100 mA
Power consumption receiver ⁴⁾ :	< 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 187 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:	700 g
Front screen:	PMMA
Pulse rate:	500 kHz
Output mode ⁵⁾ :	Q dark switching

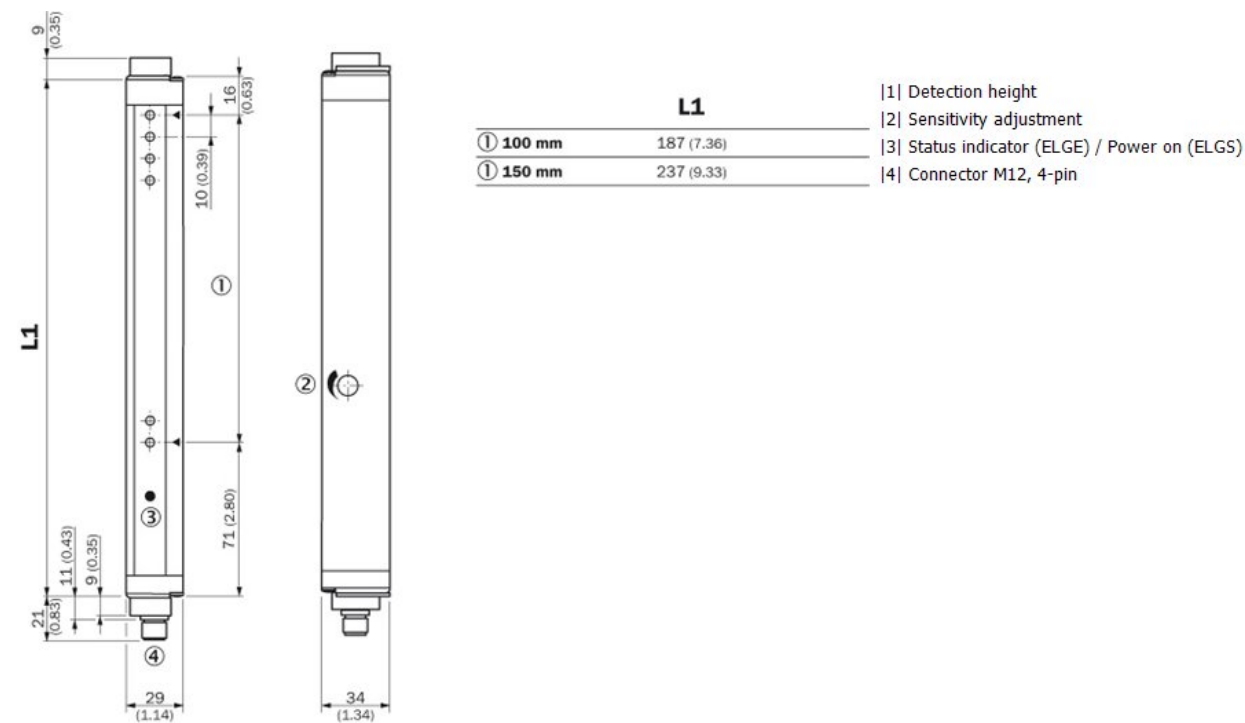
1) 2) 3) 4) Typical value 5) Q = active in case one beam is interrupted, /Q = active in case all beam are free

Ambient data

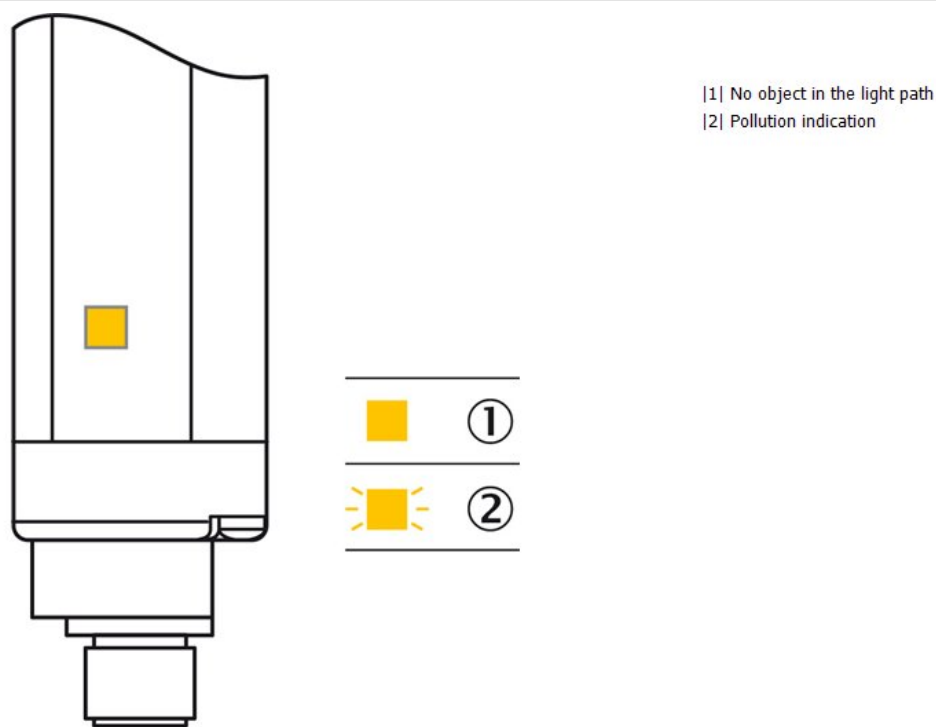
Protection class:	III
EMC:	EN 60947-5-2
Ambient temperature:	Operation: -25 ... 55 °C Storage: -40 ... 70 °C
Ambient light safety ¹⁾ :	Indirect: ≤ 150,000 lx
Vibration resistance:	5 g, 10 Hz ... 55 Hz (IEC 68-2-6)
Shock load:	10 g/DIN EN 60068-2-29/16 ms

¹⁾ Sunlight

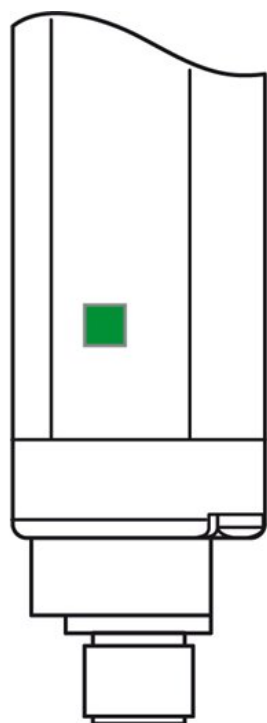
Dimensional drawing



LED display receiver



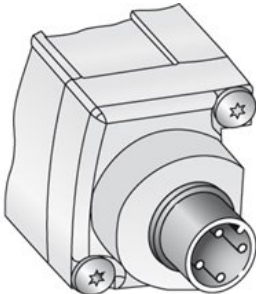
LED display sender



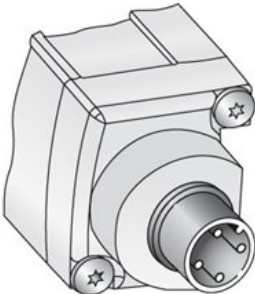
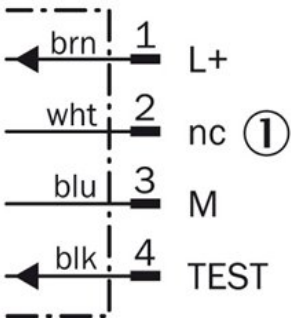
|1| Supply voltage



Connection type and diagram

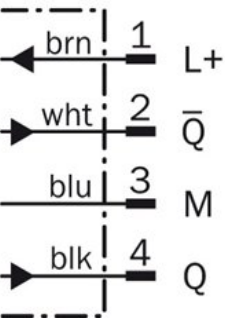


Sender



|1| not connected

Receiver



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