

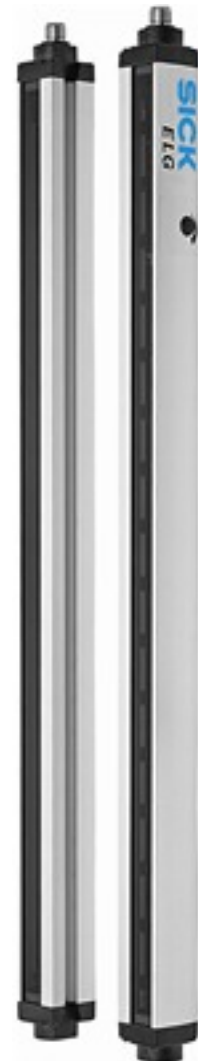


Standard automation light grids ELG, ELG Long Range

ELG6-1080P521



Model Name > [ELG6-1080P521](#)
Part No. > [1025586](#)



At a glance

- Up to 128 beams
- Different beam separations 30 mm and 60 mm
- High functional reserve (gain) for ranges up to 12 m
- Potentiometer for sensitivity setting
- Ambient light up to 150,000 lux
- Tough, aluminum housing
- PNP/NPN/relay output and a test input
- Optical synchronization

Your benefits

- Insensitive to ambient light when exposed to direct sunlight, strobe lights, and highly reflective objects, eliminating false trips
- High functional reserve (excess gain) ensures operation even if it gets dirty, dusty, or misaligned, reducing maintenance costs
- 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 sensitivity adjustment can be used to detect or ignore translucent materials to reduce production problems



Features

Technology:	Sender/receiver
Task:	Switching light grid
Minimum detectable object (MDO):	≤Parallel beam: ≥ 35 mm ... 65 mm
Beam separation:	60 mm
Number of beams:	19
Detection height:	1,080 mm
Evaluation beams:	Parallel beam

Performance

Maximum range:	17 m
Minimum range:	≥0 mm
Working range:	12 m

Response time ¹⁾:

Parallel beam: ≥ 100 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 V_s 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 current I_{max} : 100 mA
Output load capacitive: 100 nF
Output load inductive: 1 H
Initialization time: 1 s
Dimensions (W x H x D): 34 mm x 1,156 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: 3,000 g
Front screen: PMMA
Pulse rate: 250 kHz
Output mode ⁵⁾: Q dark switching

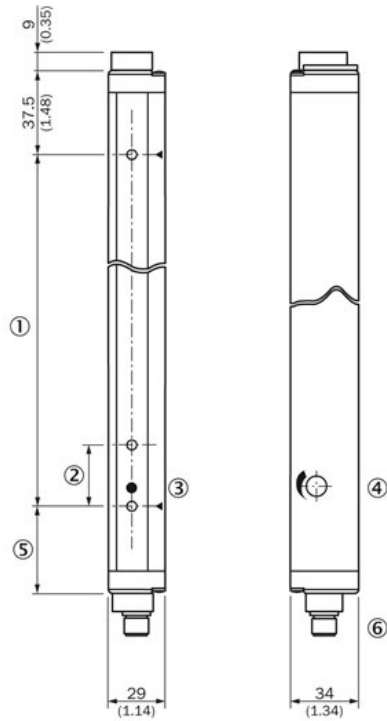
^{1) 2) 3) 4)} Typical value ⁵⁾ Q = active in case one beam is interrupted, /Q = active in case all beam are free

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: $\leq 150,000$ lx
Vibration resistance: 5 g, 10 Hz ... 55 Hz (IEC 68-2-6)
Shock load: 10 g/DIN EN 60068-2-29/16 ms

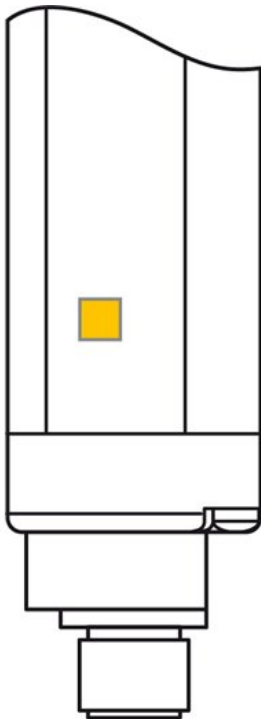
¹⁾ Sunlight

Dimensional drawing

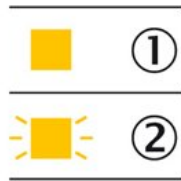


- |1| Detection height
- |2| Beam spacing ELG3: 30 mm/ELG6: 60 mm
- |3| Status indicator (ELGE)/Power on (ELG5)
- |4| Sensitivity adjustment
- |5| Distance to first beam ELG3: 38,5 mm/ELG6: 68,5 mm
- |6| Connector M12, 4-pin

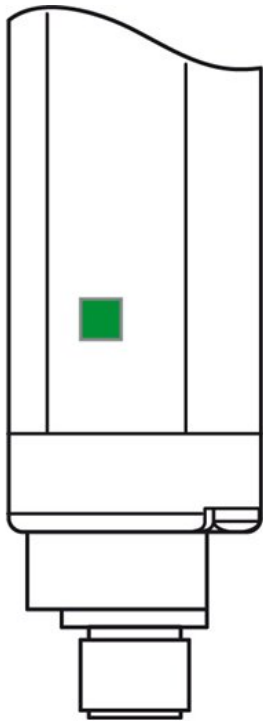
LED display receiver



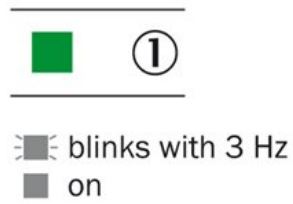
- |1| No object in the light path
- |2| Pollution indication



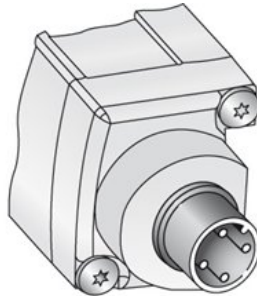
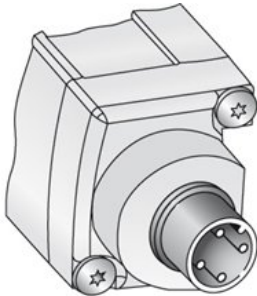
LED display sender



|1| Supply voltage

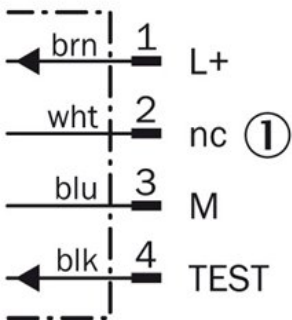


Connection type and diagram

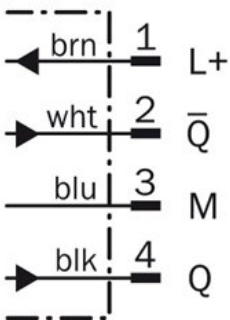


|1| not connected

Sender



Receiver



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