

ELG6-0900N541



Model Name > [ELG6-0900N541](#)
Part No. > [1041568](#)



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:	16
Detection height:	900 mm
Evaluation beams:	Parallel beam

Performance

Maximum range:	13 m
Minimum range:	≥0 mm
Working range:	9 m

Response time ¹⁾:

Parallel beam: ≥14 ms

¹⁾ With resistive load

Interfaces

Output type:	2 x NPN (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 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 976 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:	2,600 g
Front screen:	PMMA
Pulse rate:	500 kHz
Output mode ⁵⁾ :	Q dark switching

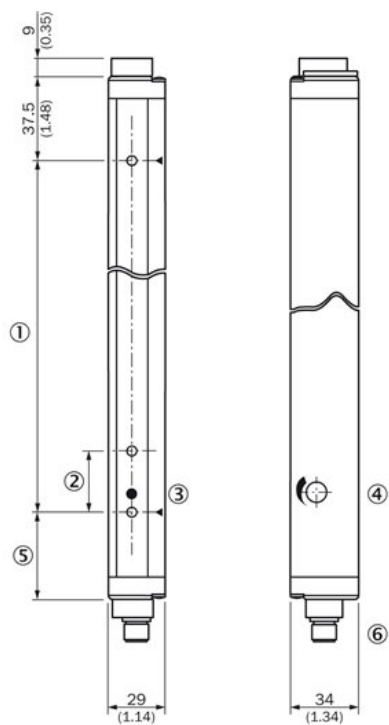
1) 2) 3) 4) Typical value ⁵⁾ Q = active in case one beam is interrupted, /Q = active in case all beam are free

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

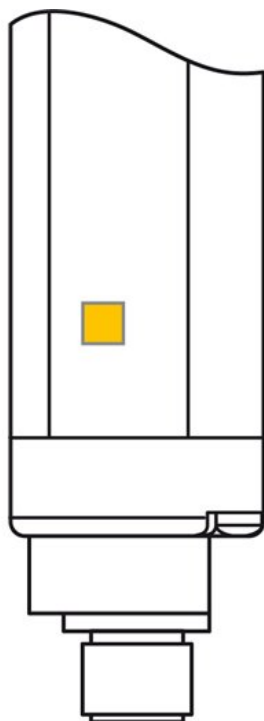
¹⁾ Sunlight

Dimensional drawing

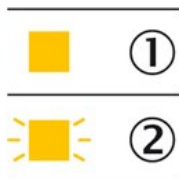


- |1| Detection height
- |2| Beam spacing ELG3: 30 mm/ELG6: 60 mm
- |3| Status indicator (ELGE)/Power on (ELGS)
- |4| Sensitivity adjustment
- |5| Distance to first beam ELG3: 38,5 mm/ELG6: 68,5 mm
- |6| Connector M12, 4-pin

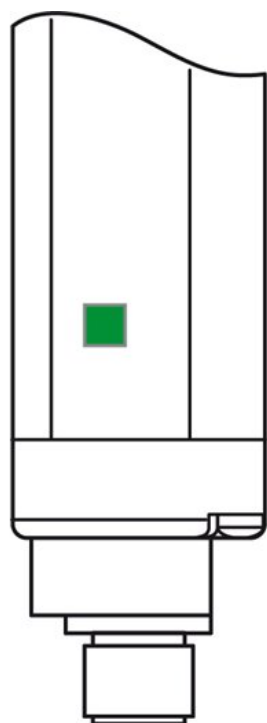
LED display receiver



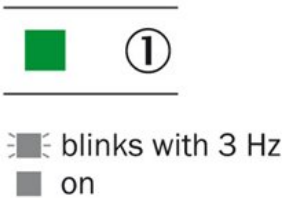
- |1| No object in the light path
- |2| Pollution indication



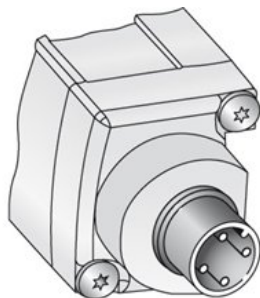
LED display sender



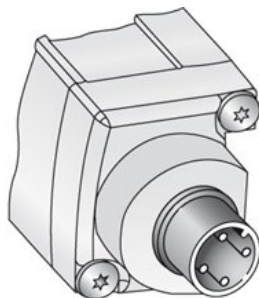
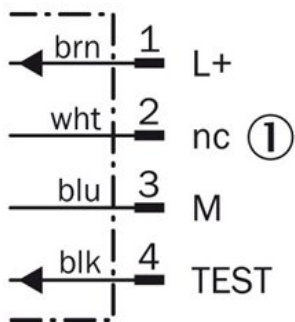
|1| Supply voltage



Connection type and diagram

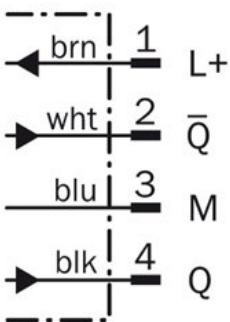


Sender



|1| not connected

Receiver



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