

HLG2-050F811

HLG

SWITCHING AUTOMATION LIGHT GRIDS





Ordering information

Туре	Part no.
HLG2-050F811	1029853

Other models and accessories → www.sick.de/HLG



Detailed technical data

Features

Technology	Sender/receiver
Minimum detectable object (MDO)	Parallel beam, 2 mm
Beam separation	2 mm
Number of beams	≥ 26
Detection height	50 mm

Performance

Maximum range	2 m
Minimum range	≥ 0 mm
Working range	1.5 m
Response time	Parallel beam ≥ 3 ms ¹⁾

 $^{^{1)}}$ With resistive load.

Interfaces

Switching output	2 x PNP (Q and /Q)
Connection type	Male connector M12, 8-pin

Mechanics/electronics

Wave length	950 nm
Supply voltage $V_{\rm s}$	DC 15 V 30 V ¹⁾
Power consumption sender	< 100 mA ¹⁾
Power consumption receiver	> 100 mA ¹⁾
Ripple	< 5 V _{pp}
Output current I _{max.}	≤ 100 mA
Output load capacitive	100 nF
Output load inductive	1H

¹⁾ Typical value

 $^{^{(2)}}$ Q = active, if at least one beam is interrupted, /Q = active, if all of the beams are free.

Initialization time	0.8 s
Dimensions (W x H x D)	34 mm x 123 mm x 29 mm
Housing material	Aluminum
Indication	LED
Synchronization	Cable
Enclosure rating	IP 54
Circuit protection	$\mbox{\bf U}_{\mbox{\bf V}}$ connections, reverse polarity protected, Output Q short-circuit protected, Interference pulse suppression
Weight	≥ 135 g
Front screen	PMMA
Output mode	Q dark switching ²⁾
Teach-in input	PNP

¹⁾ Typical value.

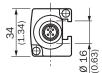
Ambient data

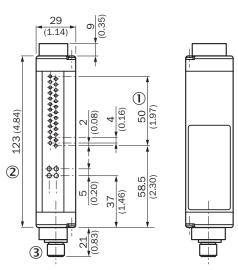
Protection class	III
EMC	EN 60947-5-2
Ambient temperature	Operation: -25 °C +55 °C Storage: -40 °C +70 °C
Ambient light immunity	Indirect: ≤ 50,000 lx ¹⁾
Vibration resistance	5 g, 10 Hz 55 Hz (IEC 68-2-6)
Shock load	10 g / DIN EN 60068-2-29 / 16 ms

¹⁾ Sunlight.

 $^{^{2)}}$ Q = active, if at least one beam is interrupted, /Q = active, if all of the beams are free.

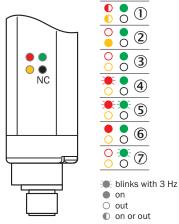
Dimensional drawing (Dimensions in mm (inch))





- ① Detection height: 50 mm
- ② Status indicator/power on
- 3 Male connector M12, 8-pin

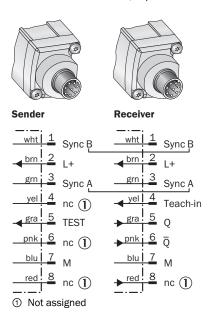
Adjustments



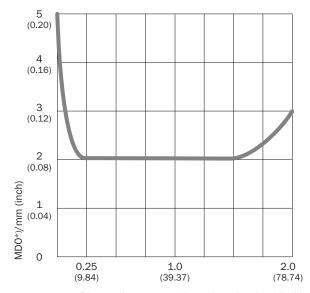
- ① Supply voltage
- ② No object in the light path
- 3 Object in the light path
- ④ Sync error
- Weak received signal during teach-in
- 6 Device error
- 7 Teach-in process active

Connection type and diagram

Sender Connector M12, 8-pin Receiver Connector M12, 8-pin



Diagramm



Distance between sender and receiver in m (inch)

^{*)} MDO: Minimum detectable object size measured in a direction parallel to the HLG

Recommended accessories

Other models and accessories → www.sick.de/HLG

	Brief description	Туре	Part no.
Terminal and alignment brackets			
	4 pieces, Mounting kit 1, rotatable, swivel mount, plastic	BEF-2SMKEAKU4	2019649
Adapters and distributors			
	Male connector M12, 8-pin, straight, to 1 x female connector M12, 8-pin, straight and 1 x female connector M12, 8-pin, straight	SBO-02F12-SM	6029306
Plug connectors and cables			
	Head A: female connector, M12, 8-pin, straight Head B: cable Cable: PVC, shielded, 5 m	DOL-1208-G05MA	6020993
1	Head A: female connector, M12, 8-pin, straight Head B: male connector, M12, 8-pin, straight Cable: drag chain use, PUR, halogen-free, shielded, 1 m	DSL-1208-G01MAC	6026625

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