

# HLG2-050E811

HLG

**SWITCHING AUTOMATION LIGHT GRIDS** 





## Ordering information

Туре	Part no.
HLG2-050E811	1041849

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

Illustration may differ



### Detailed technical data

### **Features**

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

## Mechanics/electronics

Wave length	950 nm
Supply voltage V <sub>s</sub>	DC 15 V 30 V <sup>1)</sup>
Power consumption sender	56.3 mA <sup>2)</sup>
Power consumption receiver	125.2 mA <sup>2)</sup>
Ripple	< 5 V <sub>pp</sub>
Output current I <sub>max.</sub>	≤ 100 mA
Output load, capacitive	100 nF
Output load, Inductive	1 H
Initialization time	0.8 s
Switching output	2 x NPN <sup>3)</sup>
Output mode	Q dark switching <sup>4)</sup>
Teach-in input	PNP
Dimensions (W x H x D)	34 mm x 123 mm x 29 mm
Connection type	Male connector M12, 8-pin
Housing material	Aluminum

<sup>1)</sup> Typical value.2) , Typical value.

<sup>4)</sup> Q = active, if at least one beam is interrupted, /Q = active, if all of the beams are free.

Indication	LED
Synchronization	Cable
Enclosure rating	IP54
Circuit protection	U <sub>V</sub> connections, reverse polarity protected Output Q short-circuit protected Interference pulse suppression
Protection class	III
Weight	135 g
Front screen	PMMA

## Performance

Maximum range	2 m
Minimum range	≥ 0 mm
Operating range	1.5 m
Response time	Parallel beam, 3 ms <sup>1)</sup>

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

### Ambient data

Shock resistance	10 g / DIN EN 60068-2-29 / 16 ms
Vibration resistance	5 g, 10 Hz 55 Hz (IEC 68-2-6)
EMC	EN 60947-5-2
Ambient light immunity	Indirect: ≤ 50,000 lx <sup>1)</sup>
Ambient operating temperature	-25 °C +55 °C
Ambient temperature, storage	-40 °C +70 °C

<sup>1)</sup> Sunlight.

## Classifications

ECLASS 5.0	27270910
ECLASS 5.1.4	27270910
ECLASS 6.0	27270910
ECLASS 6.2	27270910
ECLASS 7.0	27270910
ECLASS 8.0	27270910
ECLASS 8.1	27270910
ECLASS 9.0	27270910
ECLASS 10.0	27270910
ECLASS 11.0	27270910
ECLASS 12.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549

 $<sup>^{1)}</sup>$  Typical value.  $^{2)}$  , Typical value.  $^{3)}$  Q /  $\bar{\rm Q}$ .

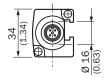
<sup>4)</sup> Q = active, if at least one beam is interrupted, /Q = active, if all of the beams are free.

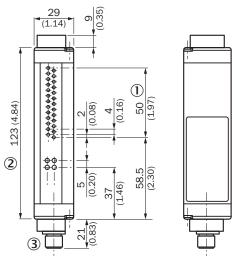
# HLG2-050E811 | HLG

## SWITCHING AUTOMATION LIGHT GRIDS

ETIM 7.0	EC002549
ETIM 8.0	EC002549
UNSPSC 16.0901	39121528

## Dimensional drawing (Dimensions in mm (inch))

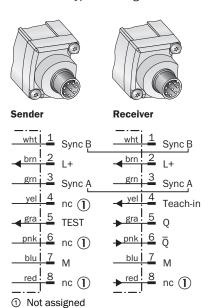




- ① Detection height: 50 mm
- Status indicator/power on Male connector M12, 8-pin

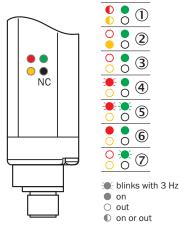
### Connection type and diagram

### Connection type and diagram



### Adjustments

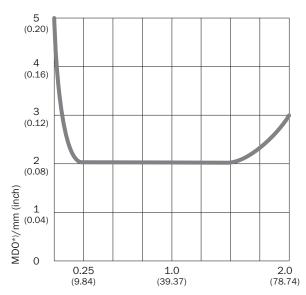
Setting options, receiver



- ① Supply voltage
- ② No object in the light path
- 3 Object in the light path
- Sync error
- ⑤ Weak received signal during teach-in
- 6 Device error
- ⑦ Teach-in process active

## Diagramm

Characteristic curve: MDO



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.com/HLG

	Brief description	Туре	Part no.	
Optics cloths				
SICK	Cloth for cleaning optical surfaces	Lens cloth	4003353	
Terminal and	Terminal and alignment brackets			
	4 pieces, Mounting kit 1, rotatable, swivel mount, plastic	BEF-2SMKEAKU4	2019649	
Others				
	<ul> <li>Connection type head A: Female connector, M12, 8-pin, A-coded</li> <li>Connection type head B: Female connector, M12, 8-pin, A-coded</li> <li>Connection type head C: Male connector, M12, 8-pin, A-coded</li> <li>Note: Male connector M12, 8-pin, straight, to 1 x female connector M12, 8-pin, straight and 1 x female connector M12, 8-pin, straight</li> </ul>	SB0-02F12-SM	6029306	
Je Je	<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight, A-coded</li> <li>Connection type head B: Male connector, M12, 8-pin, straight, A-coded</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 1 m, 8-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, shielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation</li> </ul>	YF2A28- 010UA6M2A28	2096108	

	Brief description	Туре	Part no.
V <sub>0</sub>	<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 8-wire, PVC</li> <li>Description: Sensor/actuator cable, shielded</li> <li>Application: Zones with chemicals</li> </ul>	YF2A28- 050VA6XLEAX	2096244

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

# **WORLDWIDE PRESENCE:**

Contacts and other locations -www.sick.com

