

HLG2-050F811

HLG

AUTOMATION LIGHT GRIDS



Ordering information

Туре	part no.
HLG2-050F811	1029853

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 _s	DC 15 V 30 V ¹⁾
Power consumption sender	56.3 mA ²⁾
Power consumption receiver	125.2 mA ²⁾
Ripple	< 5 V _{pp}
Output current I _{max.}	≤ 100 mA
Output load, capacitive	100 nF
Output load, Inductive	1 H
Initialization time	0.8 s
Switching output	2 x PNP ³⁾
Output mode	Q dark switching ⁴⁾
Teach-in input	PNP
Dimensions (W x H x D)	34 mm x 123 mm x 29 mm

¹⁾ Typical value.2) , Typical value.

 $^{^{4)}}$ Q = active, if at least one beam is interrupted, /Q = active, if all of the beams are free.

Connection type	Male connector M12, 8-pin
Housing material	Aluminum
Indication	LED
Synchronization	Cable
Enclosure rating	IP54
Circuit protection	U _V 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 ¹⁾

¹⁾ 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 ¹⁾
Ambient operating temperature	-25 °C +55 °C
Ambient temperature, storage	-40 °C +70 °C

¹⁾ Sunlight.

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China-RoHS	✓

Classifications

ECLASS 5.0	27270910
ECLASS 5.1.4	27270910
ECLASS 6.0	27270910
ECLASS 6.2	27270910
ECLASS 7.0	27270910

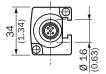
 $^{^{1)}}$ Typical value. $^{2)}$, Typical value. $^{3)}$ Q / $\bar{\rm Q}$.

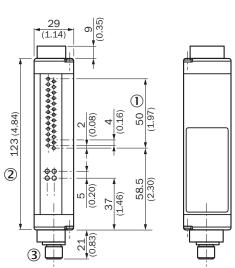
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AUTOMATION LIGHT GRIDS

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
ETIM 7.0	EC002549
ETIM 8.0	EC002549
UNSPSC 16.0901	39121528

Dimensional drawing

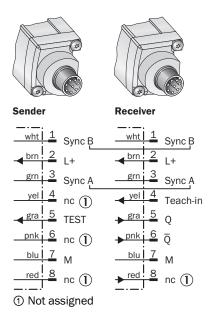




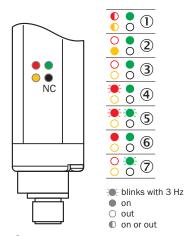
Dimensions in mm (inch)

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

Connection type and diagram

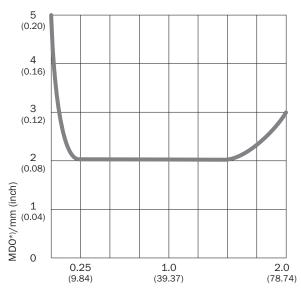


Setting options, receiver



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

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.
Mounting syst	rems		
	 Description: Mounting kit 1, rotatable, swivel mount Material: Plastic Details: Plastic Packing unit: 4 pieces Suitable for: All protective field heights in small housing 	BEF-2SMKEAKU4	2019649

	Brief description	Туре	part no.	
connectors ar	connectors and cables			
5	 Connection type head A: Female connector, M12, 6-pin, A-coded Connection type head B: Female connector, M12, 8-pin, A-coded Connection type head C: Male connector, M12, 8-pin, A-coded Description: Unshielded 	SB0-02F12-SM	6029306	
88	Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Male connector, M12, 8-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 1 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation	YF2A28-010UA6M2A28	2096108	
W _O	Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals, Uncontaminated zones	YF2A28-050VA6XLEAX	2096244	
100	Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Male connector, M12, 8-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 3 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation	YF2A28-030UA6M2A28	2145504	

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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."

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