

## MLG0-3140F822S12 MLG

**MEASURING AUTOMATION LIGHT GRIDS** 





#### Ordering information

Туре	Part no.
MLG0-3140F822S12	1012314

Illustration may differ

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



#### Detailed technical data

#### **Features**

Minimum detectable object (MDO)	Parallel beam, 60 mm
Beam separation	50 mm
Number of beams	63.8
Detection height	3,140 mm
Configuration	Parameterization interface (measuring)

#### Mechanics/electronics

Mana Langeth	950 nm
Wave length	
Supply voltage V <sub>s</sub>	18 V 30 V
Power consumption sender	106.38 mA <sup>1)</sup>
Power consumption receiver	151.9 mA <sup>1)</sup>
Ripple	10 V <sub>pp</sub>
Output current I <sub>max.</sub>	$\leq$ 100 mA $^{2)}$
Output load, capacitive	100 nF
Output load, Inductive	1 H
Initialization time	1s
Switching output	3 x PNP
Inputs	1 x PNP
Dimensions (W x H x D)	34 mm x 3,254 mm x 29 mm
Connection type	Male connector M12, 8-pin
Housing material	Aluminum
Indication	LED, 7-segment display
Synchronization	Cable
Enclosure rating	IP65 3)
Circuit protection	U <sub>V</sub> connections, reverse polarity protected  Output Q short-circuit protected  Interference pulse suppression
Protection class	III

 $<sup>^{1)}</sup>$  , Typical value.

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

 $<sup>^{\</sup>rm 3)}$  Operating in outdoor condition only with a external protection housing.

Weight 7.722 kg

#### Performance

Maximum range	12 m <sup>1)</sup>
Minimum range	Parallel beam: ≥ 0 mm
Operating range	8.5 m
Response time	Parallel beam, 10.57 ms <sup>2)</sup>

 $<sup>^{1)}\,\</sup>mathrm{No}$  reserve for environmental issue and deterioration of the diode.

#### Ambient data

Shock resistance	10 g / IEC 68-2-29 / 16 ms
Vibration resistance	5 g, 10 Hz 55 Hz (IEC 68-2-6)
EMC	EN 60947-5-2
Ambient light immunity	Direct: 12,500 lx <sup>1)</sup> Indirect: 50,000 lx <sup>1)</sup>
Ambient operating temperature	-25 °C +55 °C
Ambient temperature, storage	-40 °C +70 °C

<sup>&</sup>lt;sup>1)</sup> Sunlight.

#### Classifications

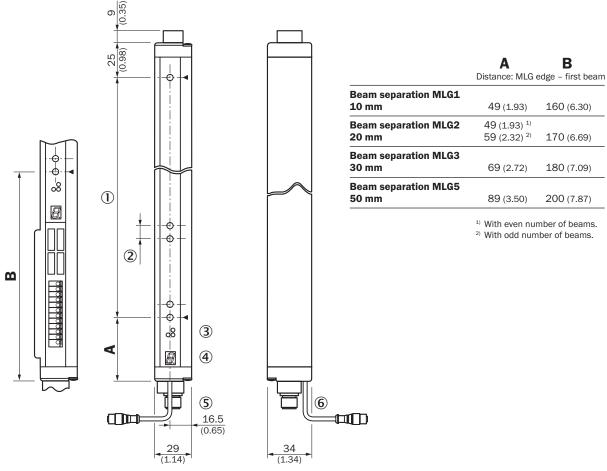
ECLASS 5.0	27270910
ECLASS 5.1.4	27270910
ECLASS 6.0	27270910
ECLASS 6.2	27270910
ECLASS 7.0	27270910
ECLASS 8.0	27270910
ECLASS 8.1	27270910
ECLASS 9.0	27270910
ECLASS 10.0	27270910
ECLASS 11.0	27270910
ECLASS 12.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
UNSPSC 16.0901	39121528

Typical value.
 Typical value.

<sup>3)</sup> Operating in outdoor condition only with a external protection housing.

<sup>2)</sup> With resistive load.

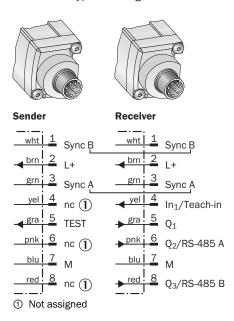
#### Dimensional drawing (Dimensions in mm (inch))



- ① Detection height (see optical performance)
- ② Beam separation (10, 20, 30, 50 mm)
- ③ Status indicator: green, yellow, red LEDs
- 4 Indicator panel, 7-segment display
- ⑤ Terminals: M16 cable entry/connector M12, 12-pin
- © Configuration connector M8, 4-pin

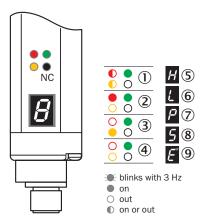
#### Connection type and diagram

Connection type and diagram



#### Adjustments

Setting options, receiver



- ① Supply voltage
- ② Device error
- 3 No object in the light path
- 4 Contamination control
- ⑤ Blocked Beams Hold (BBH)
- 6 Activated teach-in procedure
- ⑦ ParamMode is active
- Standby
- Error: E1 = sync. error; E2 = less receiver signal; E9 = defect

#### Recommended accessories

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

	Brief description	Туре	Part no.
Mounting brackets and plates			
	Side mounting with T-nuts, 4 pieces, mounting hardware included	BEF-NUT-MLG	2023696
1110	Metal mounting bracket, compact, steel, zinc coated, Set, consisting of 4 pieces, without mounting hardware	BEF-WK-XLG	2029100
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, M8, 4-pin, straight</li> <li>Connection type head B: Female connector, D-Sub, 9-pin, straight</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Note: Rectangular plug-in system, parameterization cable</li> </ul>	YF8U14- 020VA3FDSA9	2023695
100	<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: 2 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- 020UA6M2A28	2096105
100	<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: 5 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- 050UA6M2A28	2096106
100	<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: 10 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- 100UA6M2A28	2096109
W.	<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: 2 m, 8-wire, PVC</li> <li>Description: Sensor/actuator cable, shielded</li> <li>Application: Zones with chemicals</li> </ul>	YF2A28- 020VA6XLEAX	2096243
No.	<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
No.	<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: 10 m, 8-wire, PVC</li> <li>Description: Sensor/actuator cable, shielded</li> <li>Application: Zones with chemicals</li> </ul>	YF2A28- 100VA6XLEAX	2096245

# MLG0-3140F822S12 | MLG MEASURING AUTOMATION LIGHT GRIDS

Brief description	Туре	Part no.
<ul> <li>Connection type head A: Female connector, M12, 8-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 8-wire, PVC</li> <li>Description: Sensor/actuator cable, shielded</li> <li>Application: Zones with chemicals</li> </ul>	YG2A28- 020VA6XLEAX	2096218
<ul> <li>Connection type head A: Female connector, M12, 8-pin, angled, 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>	YG2A28- 050VA6XLEAX	2096219

#### 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

