



Measuring automation light grids RS485, XLG, XLG Programmable

XLG1-0590I812



Model Name > [XLG1-0590I812](#)
Part No. > [1065368](#)



At a glance

- Up to 6 x PNP or NPN switching outputs and two switching inputs
- Resolutions of 10 / 20 / 30 / 50 mm and customer-specific resolutions
- Working range up to 5 m
- Detection heights of over 3 m and up to 150 beams possible
- Short response time < 3 ms
- External teach-in for optimal sensitivity settings
- Highest immunity to sunlight
- Scratch-resistant front lens

Your benefits

- Highest immunity to sunlight for trouble-free operation
- Intelligent evaluation software saves costs
- Easy-to-see status information helps avoid interrupting operation
- Different beam separation options, detection heights and output configurations ensure a reliable solution



Features

Technology:	Sender/receiver
Minimum detectable object (MDO):	Parallel beam, 15 mm
Beam separation:	10 mm
Number of beams:	60
Detection height:	590 mm
Configuration:	Parameterization interface (measuring)

Performance

Maximum range ¹⁾ :	7 m
Minimum range:	Parallel beam: ≥ 0 mm
Response time ²⁾ :	Parallel beam: ≥ 10 ms
Working range:	5 m

¹⁾ No reserve for environmental issue and deterioration of the diode ²⁾ With resistive load

Interfaces

Data interface:	RS485
Output type:	1 x PNP
Inputs:	1 x PNP

Connection type: Male connector M12, 8-pin

Mechanics/electronics

Wave length:	IR 880 nm
Supply voltage Vs:	DC 18 V ... 30 V
Power consumption sender ¹⁾ :	260 mA
Power consumption receiver ²⁾ :	280 mA
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 664 mm x 29 mm
Housing material:	Aluminum
Indication:	7-segment display, LED
Synchronization:	Cable
Circuit protection:	Output Q short-circuit protected, Interference suppression, VS connections reverse-polarity protected
Weight:	1.857 kg
Front screen:	PMMA

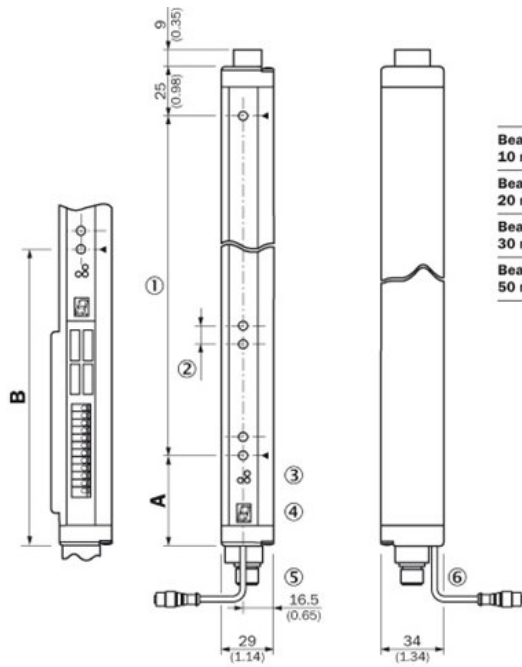
^{1) 2)} Without load with 24 V

Ambient data

Protection class:	III
EMC:	EN 60947-5-2
Ambient temperature:	Operation: -25 ... +55 °C, Storage: -40 ... +70 °C
Ambient light safety ¹⁾ , ²⁾ :	Direct: ≥150,000 lx, Indirect: ≥200,000 lx
Vibration resistance:	5 g, 10 Hz ... 55 Hz (IEC 68-2-6)
Shock load:	10 g/IEC 68-2-29/16 ms

¹⁾ Sunlight ²⁾

Dimensional drawing



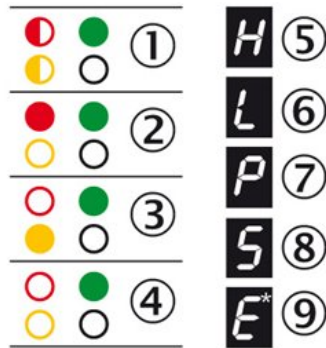
	A	B
	Distance: XLG edge - first beam	
Beam separation XLG1 10 mm	49 (1.93)	160 (6.30)
Beam separation XLG2 20 mm	49 (1.93) ¹⁾	170 (6.69)
Beam separation XLG3 30 mm	59 (2.32) ²⁾	180 (7.09)
Beam separation XLG5 50 mm	89 (3.50)	200 (7.87)

¹⁾ With even number of beams.

²⁾ With odd number of beams.

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

Adjustments receiver



- ☼ blinks with 3 Hz
- on
- out
- ◐ on or out

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



|1| not connected



Australia

Phone +61 3 9457 0600
1800 33 48 02 – tollfree
E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66
E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900
E-Mail marketing@sick.com.br

Canada

Phone +1 905 771 14 44
E-Mail information@sick.com

Česká republika

Phone +420 2 57 91 18 50
E-Mail sick@sick.cz

China

Phone +86 4000 121 000
E-Mail info.china@sick.net.cn
Phone +852-2153 6300
E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00
E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301
E-Mail info@sick.de

España

Phone +34 93 480 31 00
E-Mail info@sick.es

France

Phone +33 1 64 62 35 00
E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121
E-Mail info@sick.co.uk

India

Phone +91-22-4033 8333
E-Mail info@sick-india.com

Israel

Phone +972-4-6881000
E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41
E-Mail info@sick.it

Japan

Phone +81 (0)3 5309 2112
E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680
E-Mail office@sick.hu

Nederland

Phone +31 (0)30 229 25 44
E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00
E-Mail sick@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0
E-Mail office@sick.at

Polska

Phone +48 22 837 40 50
E-Mail info@sick.pl

România

Phone +40 356 171 120
E-Mail office@sick.ro

Russia

Phone +7-495-775-05-30
E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39
E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732
E-Mail sales.gsg@sick.com

Slovenija

Phone +386 (0)1-47 69 990
E-Mail office@sick.si

South Africa

Phone +27 11 472 3733
E-Mail info@sickautomation.co.za

South Korea

Phone +82 2 786 6321/4
E-Mail info@sickkorea.net

Suomi

Phone +358-9-25 15 800
E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00
E-Mail info@sick.se

Taiwan

Phone +886 2 2375-6288
E-Mail sales@sick.com.tw

Türkiye

Phone +90 (216) 528 50 00
E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 88 65 878
E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780
1 (800) 325-7425 – tollfree
E-Mail info@sickusa.com

More representatives and agencies
at www.sick.com