

VLC100-0201000 VLC100

**SWITCHING AUTOMATION LIGHT GRIDS** 





## Ordering information

Туре	Part no.
VLC100-0201000	1054540

Reflective tape necessary

Other models and accessories → www.sick.com/VLC100

Illustration may differ



### Detailed technical data

### **Features**

Sensor principle	Photoelectric retro-reflective sensor
Minimum detectable object (MDO)	6 mm 18 mm <sup>1)</sup>

<sup>&</sup>lt;sup>1)</sup> Dependence of the range.

## Mechanics/electronics

Wave length	850 nm
Supply voltage $V_{\rm s}$	$DC \ge 24 V^{1)}$
Ripple	± 5 %
Output current I <sub>max.</sub>	$\leq$ 20 mA $^{2)}$
Output load, capacitive	2.2 μF
Output load, Inductive	2.2 H
Initialization time	6 s
Switching output	2 x PNP
Inputs	Teach-in input
Output mode	Q, /Q <sup>3)</sup>
Dimensions (W x H x D)	90 mm x 50 mm x 90 mm
Connection type	Cable with plug M12, 8-pin, 390 mm
Housing material	Aluminum
Indication	4 x LED
Enclosure rating	IP54 4)
Circuit protection	U <sub>V</sub> connections, reverse polarity protected Output Q short-circuit protected

 $<sup>^{1)}</sup>$  Typical value.  $^{2)}$  165 mA at 24 V without output load.

 $<sup>^{3)}/</sup>Q$  = active when all light beams are free.

<sup>4)</sup> According to EN 60529.

	Interference pulse suppression	
Weight	355 g	
Front screen	Glass	

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

### Performance

Maximum range	2 m
Minimum range	≥ 0.4 m
Operating range	2 m x 2 m
Response time	≤ 20 ms <sup>1)</sup>

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

### Ambient data

Shock resistance	10 g / 16 ms / EN 60068-2-27
Vibration resistance	EN 60068-2-6
Air humidity	15 % 95 %, Non-condensing
Ambient operating temperature	0 °C +50 °C
Ambient temperature, storage	-25 °C +70 °C

## Classifications

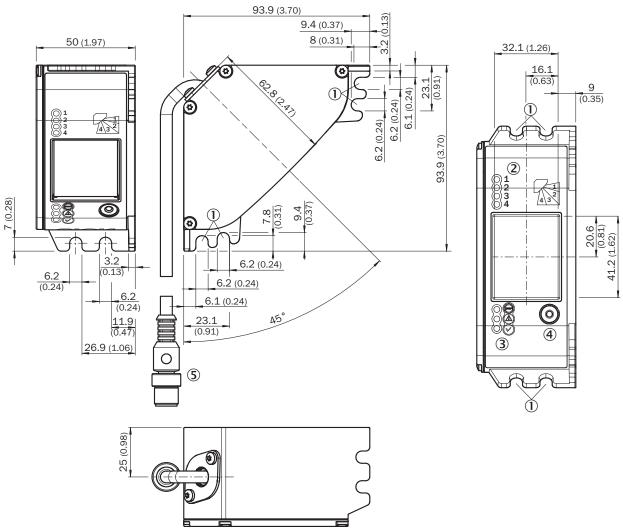
ECLASS 5.0	27270910
ECLASS 5.1.4	27270910
ECLASS 6.0	27270910
ECLASS 6.2	27270910
ECLASS 7.0	27270910
ECLASS 8.0	27270910
ECLASS 8.1	27270910
ECLASS 9.0	27270910
ECLASS 10.0	27270910
ECLASS 11.0	27270910
ECLASS 12.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
UNSPSC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

<sup>2) 165</sup> mA at 24 V without output load.

 $<sup>^{3)}/</sup>Q$  = active when all light beams are free.

<sup>4)</sup> According to EN 60529.

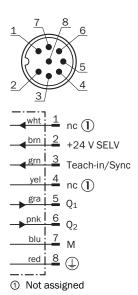
## Dimensional drawing (Dimensions in mm (inch))



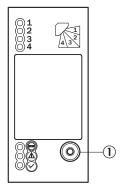
- ① Mounting hole, Ø 3.2 mm
- ② LED display, field segments
- 3 Status indicator: green, yellow, red LEDs
- ④ Teach-in button
- ⑤ Male connector M12, 8-pin

## Connection type and diagram

### Connection type and diagram



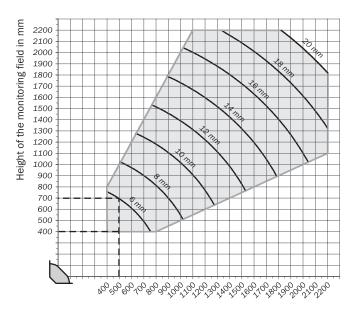
## Adjustments



① Teach-in button

## Sensing distance

### Detection area (W x H)



Width of the monitoring field in mm

#### Recommended accessories

Other models and accessories → www.sick.com/VLC100

	Brief description	Туре	Part no.
Reflectors			
0)	Reflective tape, 1,500 mm x 48 mm x 0.8 mm, protective field size max. 1.5 m x 1.5 m, self-adhesive, abrasion-resistant, 2 pieces, 48 mm x 0.8 mm x 1,500 mm, self-adhesive, 2 pieces	Reflector tape 2 x 1.5 m	2051582
Terminal and	alignment brackets		
	Mounting kit for mounting the sensor on the profile frame	Mounting kit	2045375
Others			
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: 5 m, 8-wire, PVC</li> <li>Description: Sensor/actuator cable, shielded</li> <li>Application: Zones with chemicals</li> </ul>	YF2A28- 050VA6XLEAX	2096244

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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.

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