



# L29E-3P3430

## L29

**SAFETY SINGLE-BEAM SENSORS**

**SICK**  
Sensor Intelligence.



### Ordering information

Type	part no.
L29E-3P3430	2075833

Other models and accessories → [www.sick.com/L29](http://www.sick.com/L29)



### Detailed technical data

#### Features

Scanning range	6 m
Number of beams	1
Response time	0.54 ms
Response time	0.54 ms + Test device response time (Flexi Classic)

#### Safety-related parameters

Type	Type 2 (IEC 61496-1) <sup>1)</sup>
Safety integrity level	SIL 1 (IEC 61508) <sup>1)</sup>
Category	Category 2 (EN ISO 13849) <sup>1)</sup>
Test rate (external test)	100 /s (EN ISO 13849) <sup>2)</sup>
Maximum demand rate	60 min <sup>-1</sup> (EN ISO 13849) <sup>3)</sup>
Performance level	PL c (EN ISO 13849) <sup>1)</sup>
PFH <sub>D</sub> (mean probability of a dangerous failure per hour)	1.0 x 10 <sup>-6</sup> (EN ISO 13849) <sup>1)</sup>
T <sub>M</sub> (mission time)	20 years (EN ISO 13849)

<sup>1)</sup> Only in conjunction with Flexi Classic (UE410-MU).

<sup>2)</sup> The test rate shall not be exceeded.

<sup>3)</sup> Between two requirements on a safety-related response of the device, at least 100 internal or external tests must be carried out.

#### Interfaces

Connection type	Male connector M12, 4-pin
Length of cable	120 mm
Permitted cable length	≤ 30 m
Display elements	LED

## Electronics

<b>Protection class</b>	III (IEC 61140)
<b>Supply voltage V<sub>s</sub></b>	24 V DC (19.2 V DC ... 30 V DC)
<b>Power consumption</b>	≤ 30 mA
<b>Switching outputs</b>	PNP, Q <sup>1)</sup>
<b>Current loading</b>	≤ 100 mA

<sup>1)</sup> Short-circuit protected.

## Mechanics

<b>Design</b>	Rectangular
<b>Dimensions (W x H x D)</b>	12.2 mm x 50 mm x 23.6 mm
<b>Housing material</b>	VISTAL®
<b>Weight</b>	+ 80 g

## Ambient data

<b>Enclosure rating</b>	IP65 (IEC 60529) IP66 (IEC 60529) IP67 (IEC 60529) IP69K (ISO 20653)
<b>Ambient operating temperature</b>	-40 °C ... +60 °C
<b>Storage temperature</b>	-40 °C ... +75 °C
<b>Air humidity</b>	15 % ... 95 %, Non-condensing
<b>Vibration resistance</b>	5 ... 150 Hz, 3,5 mm / 1 g (EN 60068-2-6)
<b>Shock resistance</b>	15 g / 6 ms (EN 60068-2-27)
<b>Class</b>	3M4 (IEC TR 60721-4-3)

## Other information

<b>Aperture angle/receiving angle</b>	± 5° / ± 5°
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## Certificates

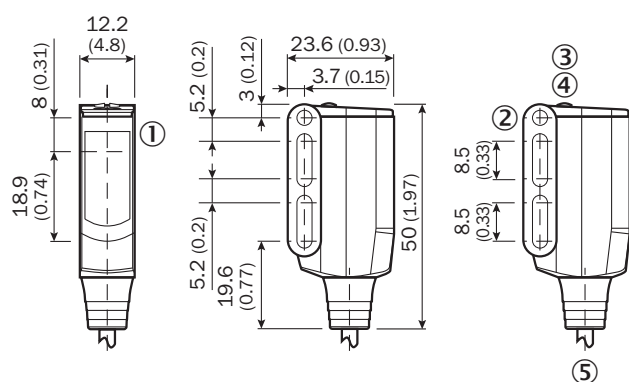
<b>EU declaration of conformity</b>	✓
<b>UK declaration of conformity</b>	✓
<b>ACMA declaration of conformity</b>	✓
<b>Moroccan declaration of conformity</b>	✓
<b>China RoHS</b>	✓
<b>EC-Type-Examination approval</b>	✓

## Classifications

<b>ECLASS 5.0</b>	27272701
<b>ECLASS 5.1.4</b>	27272701
<b>ECLASS 6.0</b>	27272701
<b>ECLASS 6.2</b>	27272701
<b>ECLASS 7.0</b>	27272701
<b>ECLASS 8.0</b>	27272701
<b>ECLASS 8.1</b>	27272701

<b>ECLASS 9.0</b>	27272701
<b>ECLASS 10.0</b>	27272701
<b>ECLASS 11.0</b>	27272701
<b>ECLASS 12.0</b>	27272701
<b>ETIM 5.0</b>	EC001831
<b>ETIM 6.0</b>	EC001831
<b>ETIM 7.0</b>	EC001831
<b>ETIM 8.0</b>	EC001831
<b>UNSPSC 16.0901</b>	46171620

### Dimensional drawing




Dimensions in mm (inch)

- ① Optical axis, sender and receiver
- ② mounting hole  $\varnothing$  3.1 mm
- ③ LED indicator yellow: Status of received light beam
- ④ LED indicator green: Supply voltage active
- ⑤ Cable with M12 male connector, 4-pin

### Recommended accessories

Other models and accessories → [www.sick.com/L29](http://www.sick.com/L29)

	Brief description	Type	part no.
connectors and cables			
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, M12, 4-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 5 m, 4-wire, PVC</li> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Application:</b> Zones with chemicals, Uncontaminated zones</li> </ul>	YF2A14-050VB3XLEAX	2096235

## 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](http://www.sick.com)