



# C2C-SA06030A10000

deTec2 Core

**SAFETY LIGHT CURTAINS**

**SICK**  
Sensor Intelligence.



### Ordering information

| Type              | Part no. |
|-------------------|----------|
| C2C-SA06030A10000 | 1213204  |

Other models and accessories → [www.sick.de/deTec2\\_Core](http://www.sick.de/deTec2_Core)



### Detailed technical data

#### Features

|                                |   |         |              |         |              |
|--------------------------------|---|---------|--------------|---------|--------------|
| <b>System part</b>             | Sender  |         |              |         |              |
| <b>Resolution</b>              | 30 mm   |         |              |         |              |
| <b>Protective field height</b> | 600 mm  |         |              |         |              |
| <b>Scanning range</b>          | <table border="0"> <tr> <td style="text-align: right;">Minimum</td> <td>0 m ... 10 m</td> </tr> <tr> <td style="text-align: right;">Typical</td> <td>0 m ... 12 m</td> </tr> </table> | Minimum | 0 m ... 10 m | Typical | 0 m ... 12 m |
| Minimum                        | 0 m ... 10 m  |         |              |         |              |
| Typical                        | 0 m ... 12 m  |         |              |         |              |
| <b>Synchronization</b>         | Optical synchronisation   |         |              |         |              |

#### Safety-related parameters

|  |  |
|--|--|
| <b>Type</b>  | Type 2 (IEC 61496)                     |
| <b>Safety integrity level</b>                                  | SIL1 (IEC 61508)<br>SILCL1 (EN 62061)  |
| <b>Category</b>  | Category 2 (EN ISO 13849)              |
| <b>Performance level</b>                                       | PL c (EN ISO 13849)                    |
| <b>PFHd (mean probability of a dangerous failure per hour)</b> | $3.1 \times 10^{-8}$ (EN ISO 13849)    |
| <b>T<sub>M</sub> (mission time)</b>                            | 20 years (EN ISO 13849)                |
| <b>Safe state in the event of a fault</b>                      | At least one OSSD is in the OFF state. |

#### Interfaces

|                                     |   |                 |                           |                        |        |
|-------------------------------------|---|-----------------|---------------------------|------------------------|--------|
| <b>System connection</b>            | <table border="0"> <tr> <td style="text-align: right;">Connection type</td> <td>Male connector M12, 5-pin</td> </tr> <tr> <td style="text-align: right;">Permitted cable length</td> <td>≤ 50 m</td> </tr> </table> | Connection type | Male connector M12, 5-pin | Permitted cable length | ≤ 50 m |
| Connection type                     | Male connector M12, 5-pin   |                 |                           |                        |        |
| Permitted cable length              | ≤ 50 m  |                 |                           |                        |        |
| <b>Fieldbus, industrial network</b> | Integration via Flexi Soft safety controller  |                 |                           |                        |        |
|                                     | CANopen, DeviceNet, EtherCAT, EtherNet/IP, Modbus TCP, PROFIBUS DP, PROFINET <sup>1)</sup>  |                 |                           |                        |        |

<sup>1)</sup> For further information on Flexi Soft, please see sens:Control – safe control solutions product catalog or → [www.sick.com/FlexiSoft](http://www.sick.com/FlexiSoft).

## Electrical data

|  |                                   |
|--|-----------------------------------|
| <b>Protection class</b>                | III (EN 50178)                    |
| <b>Supply voltage <math>V_S</math></b> | 24 V DC (19.2 V DC ... 28.8 V DC) |
| <b>Ripple</b>                          | $\leq 2.4 V_{pp}^{1)}$            |
| <b>Power consumption typical</b>       | 0.91 W (DC)                       |

<sup>1)</sup> Within the limits of  $V_S$ .

## Mechanical data

|  |                           |
|--|---------------------------|
| <b>Housing cross-section (incl. system connection)</b> | 34 mm x 30.7 mm           |
| <b>Housing material</b>                                | Aluminum extruded profile |
| <b>Weight</b>  | 570 g                     |

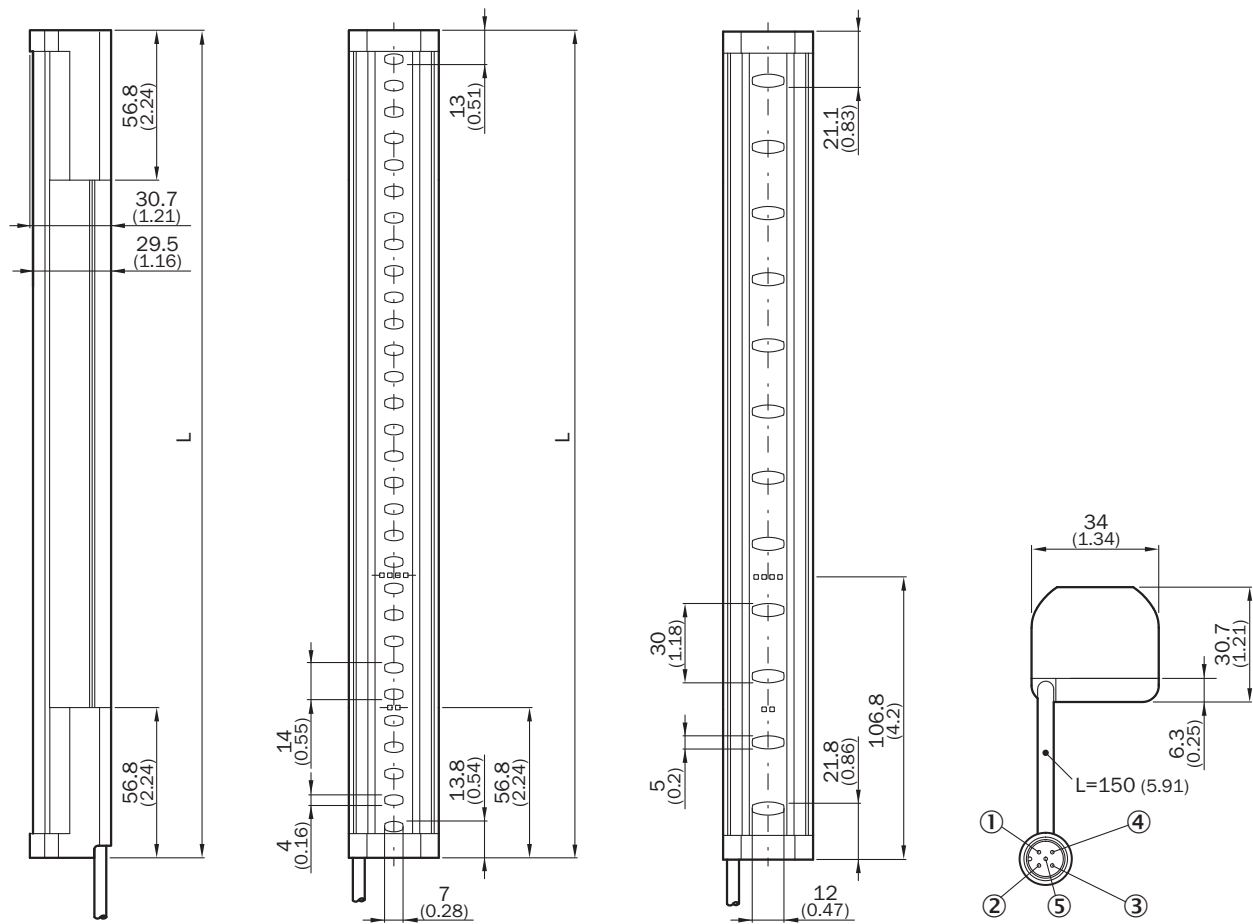
## Ambient data

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| <b>Enclosure rating</b>              | IP 65 (EN 60529)<br>IP 67 (EN 60529) |
| <b>Ambient operating temperature</b> | -30 °C ... +55 °C                    |
| <b>Storage temperature</b>           | -30 °C ... +70 °C                    |
| <b>Air humidity</b>                  | 15 % ... 95 %, Non-condensing        |
| <b>Vibration resistance</b>          | 5 g, 10 Hz ... 55 Hz (EN 60068-2-6)  |
| <b>Shock resistance</b>              | 10 g, 16 ms (EN 60068-2-29)          |

## Other information

|                    |        |
|--------------------|--------|
| <b>Wave length</b> | 850 nm |
|--------------------|--------|

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



**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 +972-4-6801000  
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 8865 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](http://www.sick.com)