



C2C-EA06030A10000

deTec2 Core

SAFETY LIGHT CURTAINS

SICK
Sensor Intelligence.



Ordering information

| Type | Part no. |
|-------------------|----------|
| C2C-EA06030A10000 | 1213205 |

Other models and accessories → www.sick.de/deTec2_Core



Detailed technical data

Features

| | | | | | |
|--------------------------------|---|---------|--------------|---------|--------------|
| System part | Receiver | | | | |
| Resolution | 30 mm | | | | |
| Protective field height | 600 mm | | | | |
| Scanning range | <table border="0"> <tr> <td>Minimum</td> <td>0 m ... 10 m</td> </tr> <tr> <td>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 | | | | |
| Response time | ≥ 10 ms | | | | |
| Synchronization | Optical synchronisation | | | | |

Safety-related parameters

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

Interfaces

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

¹⁾ For further information on Flexi Soft, please see sens:Control – safe control solutions product catalog or -> www.sick.com/FlexiSoft.

Electrical data

| | |
|--|--|
| Protection class | III (EN 50178) |
| Supply voltage V_S | 24 V DC (19.2 V DC ... 28.8 V DC) |
| Ripple | $\leq 2.4 V_{pp}^{1)}$ |
| Power consumption typical | 1.82 W (DC) |
| Safety outputs (OSSD) | |
| Type of output | 2 PNP semiconductors, short-circuit protected, cross-circuit monitored ²⁾ |
| Switching voltage HIGH | 24 V DC ($V_S - 2.25$ V DC ... V_S) |
| Switching voltage LOW | ≤ 2 V DC |
| Switching current | ≤ 300 mA |

¹⁾ Within the limits of V_S .

²⁾ Applies to the voltage range between -30 V and +30 V.

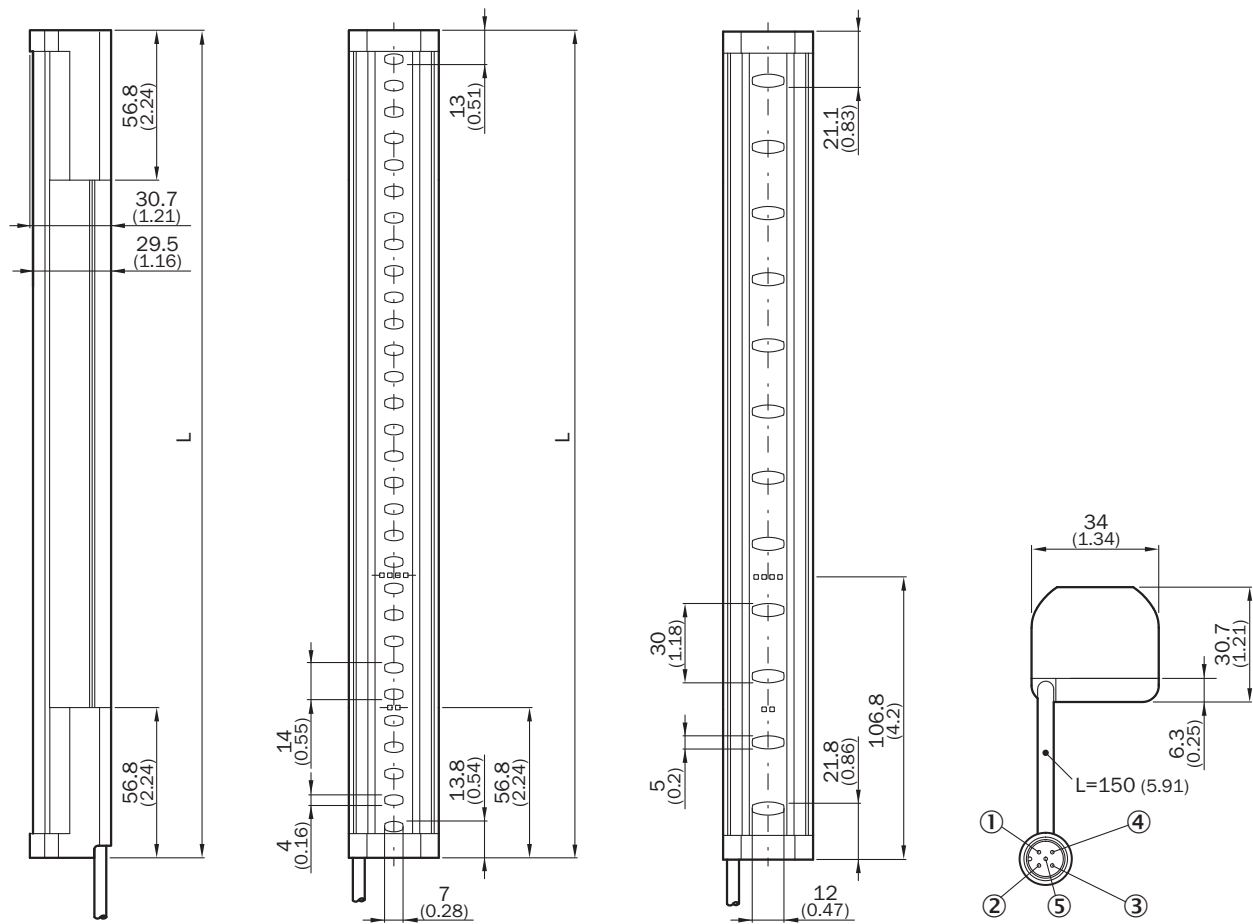
Mechanical data

| | |
|--|---------------------------|
| Housing cross-section (incl. system connection) | 34 mm x 30.7 mm |
| Housing material | Aluminum extruded profile |
| Weight | 580 g |

Ambient data

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

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