



# C2C-EA12030A10000

deTec2 Core

**SAFETY LIGHT CURTAINS**

**SICK**  
Sensor Intelligence.



### Ordering information

Type	Part no.
C2C-EA12030A10000	1213213

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



### Detailed technical data

#### Features

<b>System part</b>	Receiver				
<b>Resolution</b>	30 mm				
<b>Protective field height</b>	1,200 mm				
<b>Scanning range</b>	<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				
<b>Response time</b>	≥ 12 ms				
<b>Synchronization</b>	Optical synchronisation				

#### Safety-related parameters

<b>Type</b>	Type 2 (IEC 61496)
<b>Safety integrity level</b>	SIL1 (IEC 61508) 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>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
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>	2.21 W (DC)
<b>Safety outputs (OSSD)</b>	
Type of output	2 PNP semiconductors, short-circuit protected, cross-circuit monitored <sup>2)</sup>
Switching voltage HIGH	24 V DC ( $V_S - 2.25$ V DC ... $V_S$ )
Switching voltage LOW	$\leq 2$ V DC
Switching current	$\leq 300$ mA

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

<sup>2)</sup> Applies to the voltage range between -30 V and +30 V.

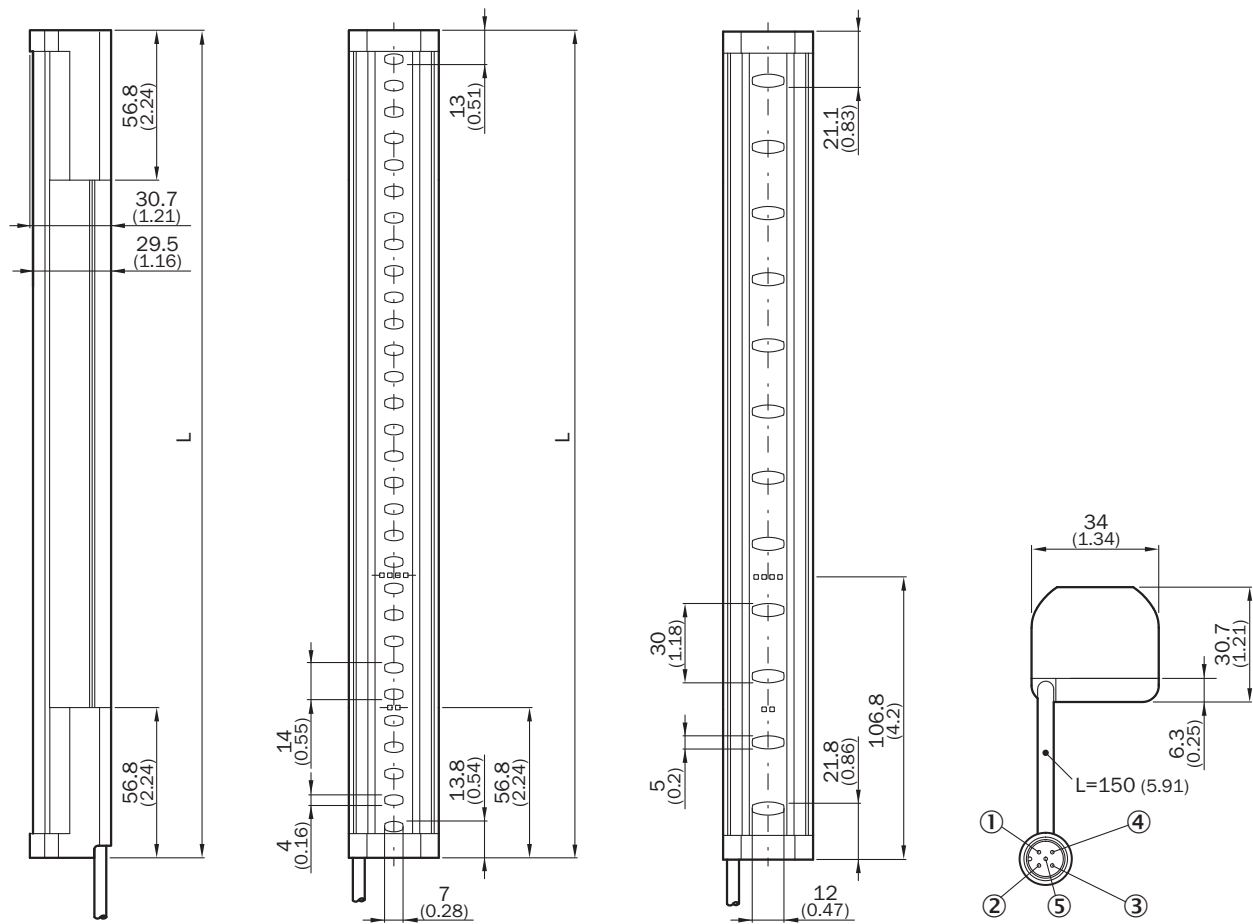
## Mechanical data

<b>Housing cross-section (incl. system connection)</b>	34 mm x 30.7 mm
<b>Housing material</b>	Aluminum extruded profile
<b>Weight</b>	1,120 g

## Ambient data

<b>Enclosure rating</b>	IP 65 (EN 60529) 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)

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



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