



# C4C-EV04530C10000

deTec

**SAFETY LIGHT CURTAINS**

**SICK**  
Sensor Intelligence.



Illustration may differ



## Ordering information

deTec4 Core Vibes

| Resolution | Scanning range | Protective field height | System part | Type              | Part no. |
|------------|----------------|-------------------------|-------------|-------------------|----------|
| 30 mm      | 6 m            | 450 mm                  | Receiver    | C4C-EV04530C10000 | 1223200  |

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

## Detailed technical data

### Features

|                                |                                                                                                                                                                                      |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>             | Machines with strong shock or vibration loads                                                                                                                                        |
| <b>System part</b>             | Receiver                                                                                                                                                                             |
| <b>Resolution</b>              | 30 mm                                                                                                                                                                                |
| <b>Scanning range</b>          | 6 m                                                                                                                                                                                  |
| <b>Protective field height</b> | 450 mm                                                                                                                                                                               |
| <b>Response time</b>           | 10 ms                                                                                                                                                                                |
| <b>No blind zones</b>          | Yes                                                                                                                                                                                  |
| <b>Synchronization</b>         | Optical synchronisation                                                                                                                                                              |
| <b>Items supplied</b>          | Receiver<br>Test rod with diameter corresponding to the resolution of the safety light curtain<br>Safety instruction<br>Mounting instructions<br>Operating instructions for download |

### Safety-related parameters

|                                                                           |                                        |
|---------------------------------------------------------------------------|----------------------------------------|
| <b>Type</b>                                                               | Type 4 (IEC 61496-1)                   |
| <b>Safety integrity level</b>                                             | SIL3 (IEC 61508)<br>SILCL3 (IEC 62061) |
| <b>Category</b>                                                           | Category 4 (ISO 13849-1)               |
| <b>Performance level</b>                                                  | PL e (ISO 13849-1)                     |
| <b>PFH<sub>D</sub> (mean probability of a dangerous failure per hour)</b> | $3.7 \times 10^{-9}$                   |
| <b>T<sub>M</sub> (mission time)</b>                                       | 20 years (ISO 13849-1)                 |
| <b>Safe state in the event of a fault</b>                                 | At least one OSSD is in the OFF state. |

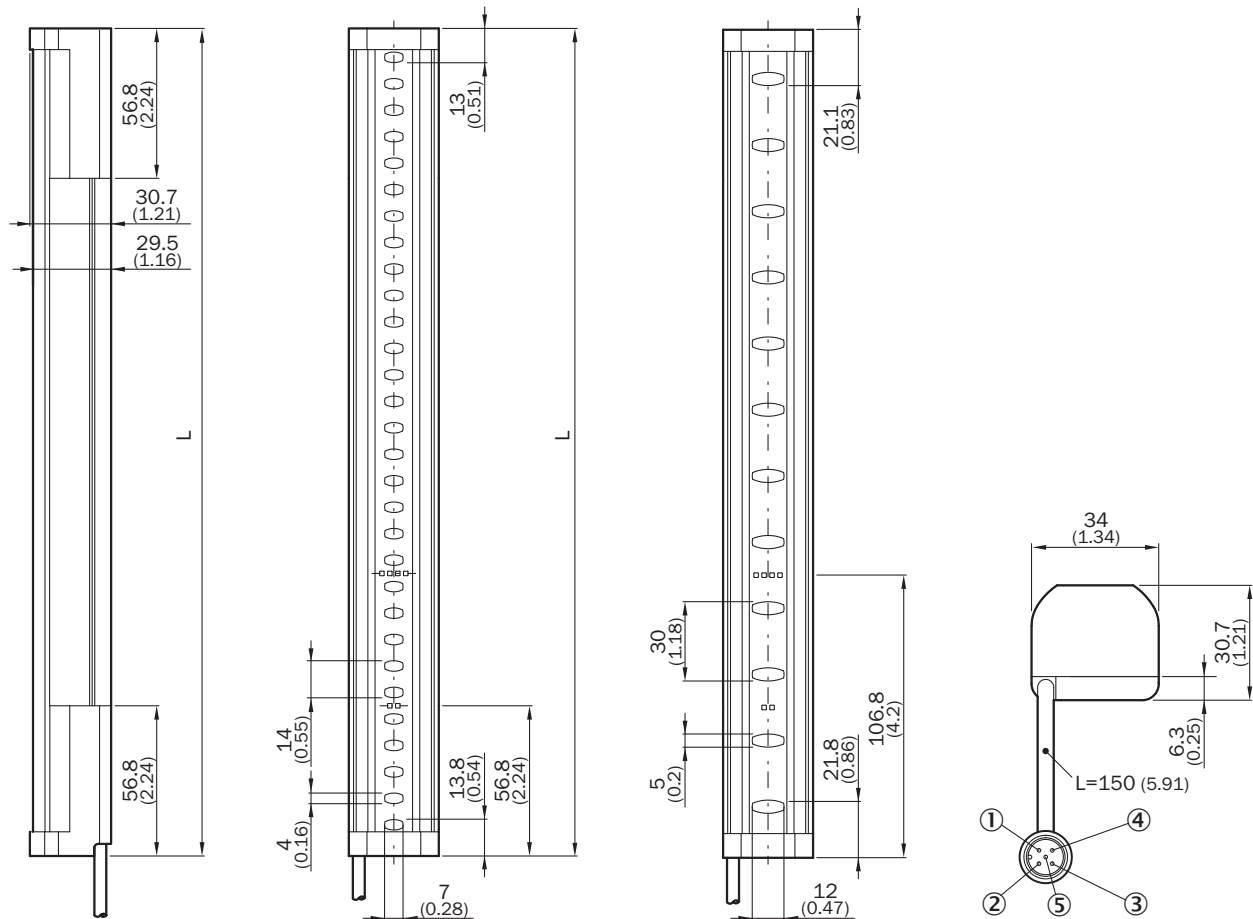
### Functions

|                             |   |
|-----------------------------|---|
| <b>Protective operation</b> | ✓ |
|-----------------------------|---|



|                       |          |
|-----------------------|----------|
| <b>ECI@ss 7.0</b>     | 27272704 |
| <b>ECI@ss 8.0</b>     | 27272704 |
| <b>ECI@ss 8.1</b>     | 27272704 |
| <b>ECI@ss 9.0</b>     | 27272704 |
| <b>ECI@ss 10.0</b>    | 27272704 |
| <b>ECI@ss 11.0</b>    | 27272704 |
| <b>ETIM 5.0</b>       | EC002549 |
| <b>ETIM 6.0</b>       | EC002549 |
| <b>ETIM 7.0</b>       | EC002549 |
| <b>UNSPSC 16.0901</b> | 46171620 |

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



| Protective field height | L           |
|-------------------------|-------------|
| 300 (11.81)             | 313 (12.32) |
| 450 (17.72)             | 463 (18.23) |
| 600 (23.62)             | 613 (24.13) |
| 750 (29.53)             | 763 (30.04) |
| 900 (35.43)             | 913 (35.94) |

| Protective field height | L             |
|-------------------------|---------------|
| 1,050 (41.34)           | 1,063 (41.85) |
| 1,200 (47.24)           | 1,213 (47.76) |
| 1,350 (53.15)           | 1,362 (53.62) |
| 1,500 (59.06)           | 1,512 (59.53) |
| 1,650 (64.96)           | 1,662 (65.43) |
| 1,800 (70.87)           | 1,812 (71.34) |
| 1,950 (76.77)           | 1,962 (77.24) |
| 2,100 (82.68)           | 2,112 (83.15) |

## Recommended accessories

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

|                                                                                     | Brief description                                                                                                                                                                     | Type               | Part no. |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| Terminal and alignment brackets                                                     |                                                                                                                                                                                       |                    |          |
|    | 4 pieces, QuickFix bracket for 2 devices (e.g. sender and receiver), plastic                                                                                                          | BEF-3SHABPKU4      | 2098710  |
| Distributors                                                                        |                                                                                                                                                                                       |                    |          |
|  | Head A: female connector, M12, 5-pin, A-coded<br>Head B: male connector, M12, 5-pin, A-coded<br>5-pin                                                                                 | DSC-1205T000025KM0 | 6030664  |
| Plug connectors and cables                                                          |                                                                                                                                                                                       |                    |          |
|  | Head A: female connector, M12, 5-pin, straight, A-coded<br>Head B: Flying leads<br>Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m                                   | YF2A15-020UB5XLEAX | 2095617  |
|                                                                                     | Head A: female connector, M12, 5-pin, straight, A-coded<br>Head B: Flying leads<br>Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m                                   | YF2A15-050UB5XLEAX | 2095618  |
|                                                                                     | Head A: female connector, M12, 5-pin, straight, A-coded<br>Head B: Flying leads<br>Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m                                  | YF2A15-100UB5XLEAX | 2095619  |
|  | Head A: female connector, M12, 5-pin, straight, A-coded<br>Head B: male connector, M12, 5-pin, straight, A-coded<br>Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m  | YF2A15-020UB5M2A15 | 2096009  |
|                                                                                     | Head A: female connector, M12, 5-pin, straight, A-coded<br>Head B: male connector, M12, 5-pin, straight, A-coded<br>Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m  | YF2A15-050UB5M2A15 | 2096010  |
|                                                                                     | Head A: female connector, M12, 5-pin, straight, A-coded<br>Head B: male connector, M12, 5-pin, straight, A-coded<br>Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m | YF2A15-100UB5M2A15 | 2096011  |

## 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)