

C4C-SG18010A10000

deTec

SAFETY LIGHT CURTAINS





Ordering information

deTec4 Core HG

| Resolution | Scanning range | Protective field height | System part | Туре | Part no. |
|------------|-------------------|-------------------------|-------------|-----------------------|----------|
| 14 mm | 10 m | 1,800 mm | Sender | C4C- SG18010A10000 | 1220375 |

Other models and accessories → www.sick.com/deTec

Illustration may differ



Detailed technical data

Features

| Sub product family | deTec4 Core HG |
|-------------------------|---|
| Application | Areas where coolants, lubricants and cleaning agents are used |
| System part | Sender |
| Compatible receiver | 1220386 |
| Resolution | 14 mm |
| Scanning range | 10 m |
| Protective field height | 1,800 mm |
| No blind zones | Yes |
| Synchronization | Optical synchronisation |
| Items supplied | Sender |

Safety-related parameters

| Туре | Type 4 (IEC 61496-1) |
|---|--|
| Safety integrity level | SIL 3 (IEC 61508) |
| Category | Category 4 (ISO 13849-1) |
| Performance level | PL e (ISO 13849-1) |
| $\ensuremath{PFH_D}$ (mean probability of a dangerous failure per hour) | 3.7×10^{-9} |
| T _M (mission time) | 20 years (ISO 13849-1) |
| Safe state in the event of a fault | At least one OSSD is in the OFF state. |

Functions

| Protective operation | J |
|---|----------|
| Automatic calibration of the protective field width | √ |

Interfaces

| System connection | Male connector M12, 5-pin |
|-------------------|---------------------------|
|-------------------|---------------------------|

| Length of cable | 150 mm |
|---------------------|-----------------------|
| Cable diameter | 4.3 mm |
| Cable bend radius | |
| Stationary position | > 12 x cable diameter |
| Flexible use | > 15 x cable diameter |
| Display elements | LEDs |

Electrical data

| Protection class | III (IEC 61140) |
|-------------------------------|-------------------------|
| Supply voltage V _S | 24 V DC (19.2 V 28.8 V) |
| Ripple | ≤ 10 % |
| Power consumption typical | 2.16 W (DC) |

Mechanical data

| Dimensions | See dimensional drawing |
|-----------------------|------------------------------------|
| Housing material | Aluminum extruded profile |
| Front screen material | Chemically prestressed float glass |

Ambient data

| Enclosure rating | IP65 (IEC 60529) IP67 (IEC 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 (IEC 60068-2-6) |
| Shock resistance | 10 g, 16 ms (IEC 60068-2-27) |

Other information

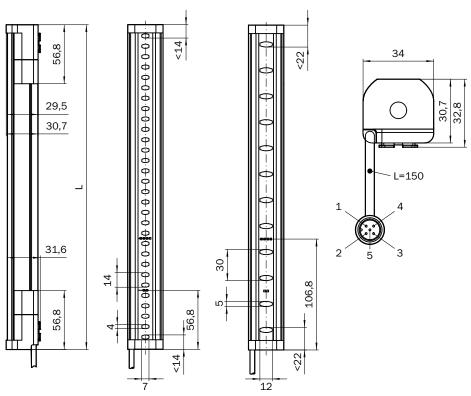
| Wave length | 850 nm |
|---------------|--------------------------------|
| Type of light | Near-infrared (NIR), invisible |

Classifications

| ECLASS 5.0 | 27272704 |
|--------------|----------|
| ECLASS 5.1.4 | 27272704 |
| ECLASS 6.0 | 27272704 |
| ECLASS 6.2 | 27272704 |
| ECLASS 7.0 | 27272704 |
| ECLASS 8.0 | 27272704 |
| ECLASS 8.1 | 27272704 |
| ECLASS 9.0 | 27272704 |
| ECLASS 10.0 | 27272704 |
| ECLASS 11.0 | 27272704 |
| ECLASS 12.0 | 27272704 |
| ETIM 5.0 | EC002549 |
| ETIM 6.0 | EC002549 |
| ETIM 7.0 | EC002549 |

| ETIM 8.0 | EC002549 |
|----------------|----------|
| UNSPSC 16.0901 | 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) |
| 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

| | Brief description | Туре | Part no. |
|--|--|--------------------|----------|
| Distributors | | | |
| | Connection type head A: Female connector, M12, 5-pin, A-coded Connection type head B: Male connector, M12, 5-pin, A-coded Connection type head C: Female connector, M12, 5-pin, A-coded Description: T-piece for simultaneous connection to sender and receiver, splits the cable from the control cabinet to the sender and receiver Note: 5-pin | DSC-1205T000025KM0 | 6030664 |
| Terminal and | alignment brackets | | |
| | 4 pieces, FlexFix bracket for 2 devices (e.g. sender and receiver), can be aligned $\pm15^\circ$, including M5 screw, plastic | BEF-1SHABPKU4 | 2066614 |
| NA STATE OF THE PARTY OF THE PA | 4 pieces, QuickFix bracket for 2 devices (e.g. sender and receiver), plastic | BEF-3SHABPKU4 | 2098710 |
| Others | | | |
| 10 to | Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Male connector, M12, 5-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 2 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot | YF2A15-020UB5M2A15 | 2096009 |
| ko ko | Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Male connector, M12, 5-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 5 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot | YF2A15-050UB5M2A15 | 2096010 |
| R R | Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Male connector, M12, 5-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 10 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot | YF2A15-100UB5M2A15 | 209601 |
| | Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot | YF2A15-020UB5XLEAX | 209561 |
| | Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot | YF2A15-050UB5XLEAX | 209561 |
| No. | Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot | YF2A15-100UB5XLEAX | 2095619 |

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| | Brief description | Туре | Part no. | | |
|----------------------------|--|--------------|----------|--|--|
| Safety switching amplifier | | | | | |
| | Applications: Evaluation unit Compatible sensor types: Safety sensors with OSSDs Connection type: Front connector with spring terminals Restart interlock: yes External device monitoring (EDM): Integrated Outputs: 2 enabling current paths (safe), 2 application diagnostic outputs (not safe), 1 test pulse output (not safe) Housing width: 18 mm | RLY3-OSSD200 | 1085344 | | |
| | Applications: Evaluation unit Compatible sensor types: Safety sensors with OSSDs Connection type: Front connector with spring terminals Restart interlock: yes External device monitoring (EDM): Integrated Outputs: 3 enabling current paths (safe), 2 application diagnostic outputs (not safe), 1 test pulse output (not safe) Housing width: 18 mm | RLY3-OSSD300 | 1099969 | | |

SICK AT A GLANCE

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