

# C2C-SG07530A10000 deTec

SICK Sensor Intelligence.

**SAFETY LIGHT CURTAINS** 

## C2C-SG07530A10000 | deTec

SAFETY LIGHT CURTAINS



## Ordering information

deTec2 Core HG

Resolution	Scanning range	Protective field height	System part	Туре	Part no.
30 mm	15 m	750 mm	Sender	C2C- SG07530A10000	1220514

Other models and accessories -> www.sick.com/deTec

Illustration may differ



## Detailed technical data

#### Features

Sub product family	deTec2 Core HG
Application	Areas where coolants, lubricants and cleaning agents are used
System part	Sender
Compatible receiver	1220525
Resolution	30 mm
Scanning range	15 m
Protective field height	750 mm
No blind zones	Yes
Synchronization	Optical synchronisation
Items supplied	Sender

#### Safety-related parameters

Туре	Type 2 (IEC 61496-1)
Safety integrity level	SIL 1 (IEC 61508)
Category	Category 2 (ISO 13849-1)
Performance level	PL c (ISO 13849-1)
$\ensuremath{PFH}\xspace_{D}$ (mean probability of a dangerous failure per hour)	31 x 10 <sup>.9</sup>
T <sub>M</sub> (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	1
Automatic calibration of the protective field width	1
Interfaces	

Male connector M12, 5-pin

System connection

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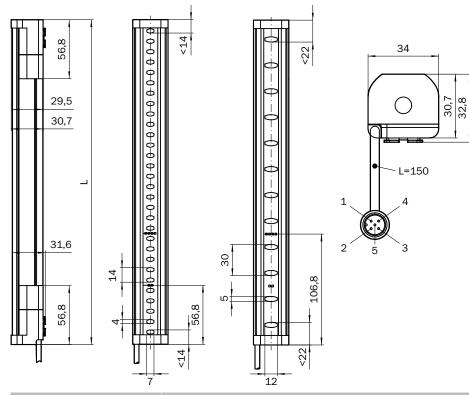
Length of cable         150 mm           Cable bend radius         > 12 x cable diameter           Stationary positio         > 15 x cable diameter           Probab         > 15 x cable diameter           Flexible use         > 15 x cable diameter           Protection class         U(EC 61140)           Supply votices Vs         24 V DC (19.2 V 28.8 V)           Ripple         24 V DC (19.2 V 28.8 V)           Power consumption typical         096 W (DC)           Moderational data	Cable diameter4.3 mmCable bend radius512 x cable diameterStationary position122 x cable diameterFlexible use155 x cable diameterDisplay elementsLEDsElectrical data24 V DC (19.2 VRipple210 %Power consumption typical0.96 W (DC)Mechanical data0.96 W (DC)Methanical dataSee dimensionsHousing materialAluminum extrustroFont screen materialChemical positionStorage temperature-30 ° C + 75 ° CStorage temperature-30 ° C + 75 ° CMaintidity15 % 95 % NOVibration resistance5 (10 Hz 55 ° CStorage temperature-30 ° C + 75 ° CMarient dig15 % 95 % NOVibration resistance5 (10 Hz 55 ° CStorage temperature-30 ° C + 75 ° CMarient dig15 % 95 % NOVibration resistance5 (10 Hz 55 ° CStorage temperature-30 ° C + 75 ° CWave length15 % 95 % NOType of lightNaerinfraed NOClassifications272704 ° CEclass 5.1.4272704 ° CEclass 6.0272704 ° CEclass 6.2272704 ° CEclass 6.2272704 ° CEclass 6.3272704 ° CEclass 6.4272704 ° CEclass 6.5272704 ° CEclass 6.7272704 ° CEclass 6.7272704 ° CEclass 6.7272704 ° CEclass 6.7272704 ° C <th></th>	
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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 60068-2-6)           Other information         850 nm           Vave length         850 nm           Type of light         Near-infrared (NIR), invisible           EcLASS 5.0         2727704           EcLASS 6.0         2727704           EcLASS 6.2         2727704           EcLASS 6.2         2727704           EcLASS 7.0         2727704           EcLASS 8.0         2727704	IP67 (IEC 60529           Ambient operating temperature         -30 °C +55 °           Storage temperature         -30 °C +70 °           Air humidity         15 % 95 %, No           Vibration resistance         5 g, 10 Hz 55           Shock resistance         10 g, 16 ms (IEC           Other information         850 nm           Wave length         850 nm           Type of light         Near-infrared (N           Classifications         27272704           ECLASS 5.0         27272704           ECLASS 6.0         27272704           ECLASS 6.1         27272704           ECLASS 7.0         27272704           ECLASS 8.1         27272704           ECLASS 9.0         27272704           ECLASS 10.0         27272704           ECLASS 11.0         27272704	
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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         850 nm           Wave length         850 nm           Type of light         Near-infrared (NIR), invisible           Classifications         27272704           ECLASS 5.0         27272704           ECLASS 6.0         27272704           ECLASS 6.2         27272704           ECLASS 6.2         27272704           ECLASS 7.0         27272704           ECLASS 7.0         27272704           ECLASS 8.0         27272704	Air humidity       15 % 95 %, No         Vibration resistance       5 g, 10 Hz 55         Shock resistance       10 g, 16 ms (IEC         Other information       850 nm         Wave length       850 nm         Type of light       Near-infrared (N         Classifications       27272704         ECLASS 5.0       27272704         ECLASS 5.1.4       27272704         ECLASS 6.2       27272704         ECLASS 6.2       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	c
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ECLASS 6.2     27272704       ECLASS 7.0     27272704       ECLASS 8.0     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	
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ETIM 5.0 EC002549		
ETIM 6.0 EC002549	ETIM 6.0 EC002549	
	ETIM 7.0 EC002549	

## C2C-SG07530A10000 | deTec

SAFETY LIGHT CURTAINS

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)

# C2C-SG07530A10000 | deTec SAFETY LIGHT CURTAINS

### **Recommended accessories**

Other models and accessories -> www.sick.com/deTec

	Brief description	Туре	Part no.		
Distributors					
	<ul> <li>Connection type head A: Female connector, M12, 5-pin, A-coded</li> <li>Connection type head B: Male connector, M12, 5-pin, A-coded</li> <li>Connection type head C: Female connector, M12, 5-pin, A-coded</li> <li>Description: T-piece for simultaneous connection to sender and receiver, splits the cable from the control cabinet to the sender and receiver</li> <li>Note: 5-pin</li> </ul>	DSC-1205T000025KM0	6030664		
Plug connecto	ors and cables				
<b>N</b> O	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF2A15-020UB5XLEAX	2095617		
	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF2A15-050UB5XLEAX	2095618		
	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF2A15-100UB5XLEAX	2095619		
1010	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Male connector, M12, 5-pin, straight, A-coded</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF2A15-020UB5M2A15	2096009		
	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Male connector, M12, 5-pin, straight, A-coded</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF2A15-050UB5M2A15	2096010		
	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Male connector, M12, 5-pin, straight, A-coded</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 5-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF2A15-100UB5M2A15	2096011		
Terminal and	Terminal and alignment brackets				
	4 pieces, FlexFix bracket for 2 devices (e.g. sender and receiver), can be aligned $\pm$ 15 °, including M5 screw, plastic	BEF-1SHABPKU4	2066614		
WE -	4 pieces, QuickFix bracket for 2 devices (e.g. sender and receiver), plastic	BEF-3SHABPKU4	2098710		

# C2C-SG07530A10000 | deTec

SAFETY LIGHT CURTAINS

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

# 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:

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Online data sheet

