



# C4P-SA09030A00

deTec

**SAFETY LIGHT CURTAINS**

**SICK**  
Sensor Intelligence.



### Ordering information

Type	Part no.
C4P-SA09030A00	1215309

The system plug has to be ordered separately. For details, see "Accessories".

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



### Detailed technical data

#### Features

<b>Items supplied</b>	Sender
<b>Application</b>	Normal industrial environment
<b>Resolution</b>	30 mm
<b>Protective field height</b>	900 mm
<b>Scanning range</b>	30 m
<b>No blind zones</b>	Yes
<b>Synchronization</b>	Optical synchronisation
<b>Integrated laser alignment aid</b>	✓

#### Safety-related parameters

<b>Type</b>	Type 4 (IEC 61496-1)	
<b>Safety integrity level</b>	SIL3 (IEC 61508) 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>	Single device	$9.6 \times 10^{-9}$
	Cascade with one guest	$1.9 \times 10^{-8}$
	Cascade with two guest devices	$2.9 \times 10^{-8}$
<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>Automatic calibration of the protective field width</b>	✓
<b>Beam coding</b>	✓

<b>Cascading</b>	✓
------------------	---

### Interfaces

<b>Connection type</b>	Not included (system plug required)
<b>Configuration method</b>	DIP switch on system plug
<b>Display elements</b>	LEDs
<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 additional information on Flexi Soft -> [www.sick.com/Flexi\\_Soft](http://www.sick.com/Flexi_Soft).

### Electrical data

<b>Protection class</b>	III (IEC 61140)
<b>Supply voltage V<sub>s</sub></b>	24 V DC (19.2 V ... 28.8 V)
<b>Ripple</b>	≤ 10 %
<b>Power consumption typical</b>	1.53 W (DC)

### Mechanical data

<b>Dimensions</b>	See dimensional drawing
<b>Housing material</b>	Aluminum extruded profile

### Ambient data

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

### Other information

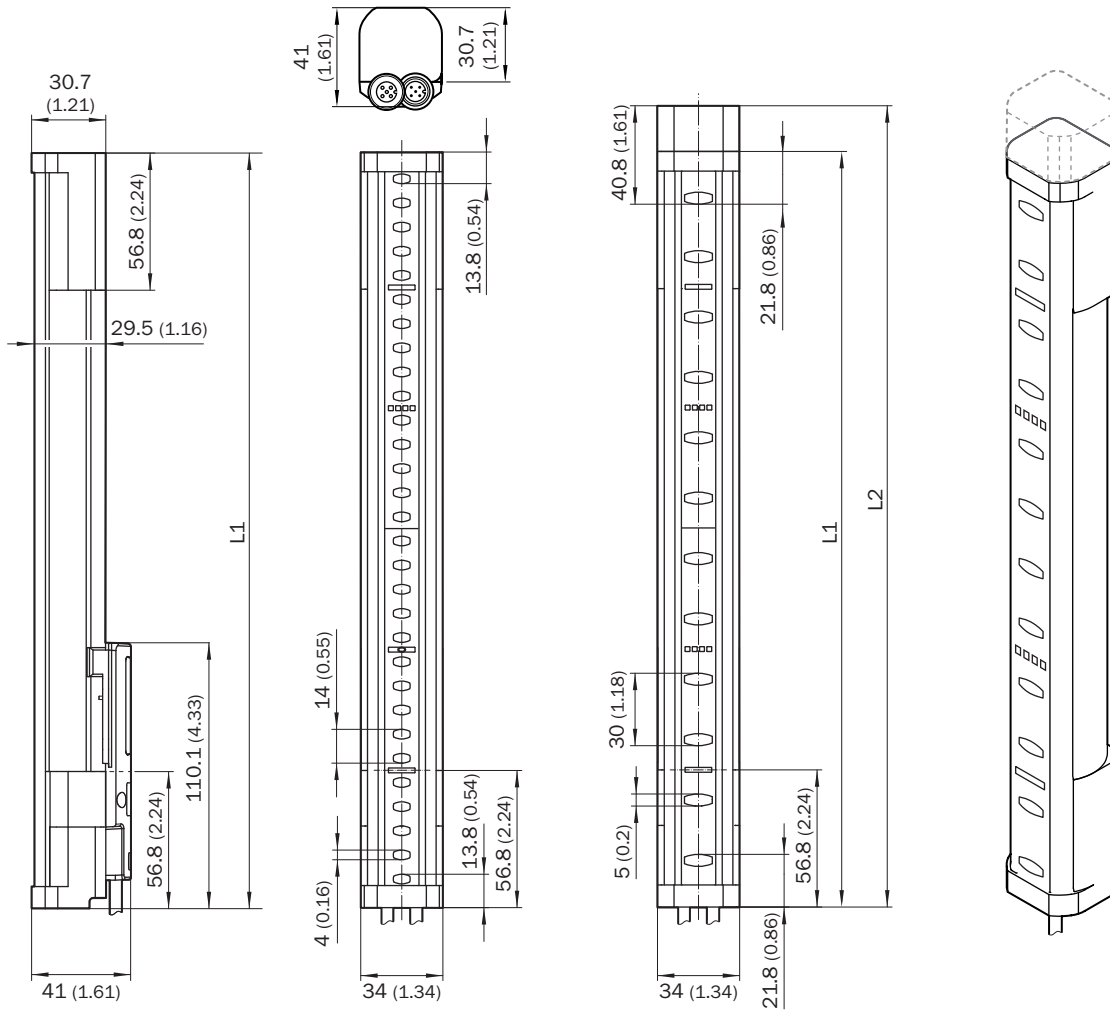
<b>Wave length</b>	850 nm
<b>Type of light</b>	Near-infrared (NIR), invisible
<b>Integrated laser alignment aid</b>	✓
Laser class	1
Type of light	Visible red light
Wave length	650 nm

### Classifications

<b>ECl@ss 5.0</b>	27272704
<b>ECl@ss 5.1.4</b>	27272704
<b>ECl@ss 6.0</b>	27272704
<b>ECl@ss 6.2</b>	27272704
<b>ECl@ss 7.0</b>	27272704
<b>ECl@ss 8.0</b>	27272704
<b>ECl@ss 8.1</b>	27272704
<b>ECl@ss 9.0</b>	27272704

<b>ETIM 5.0</b>	EC002549
<b>ETIM 6.0</b>	EC002549
<b>UNSPSC 16.0901</b>	46171620

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







Protective field height	L1	L2
300 (11.81)	313 (12.32)	332 (13.07)
450 (17.72)	463 (18.23)	482 (18.98)
600 (23.62)	613 (24.13)	632 (24.88)
750 (29.53)	763 (30.04)	782 (30.79)
900 (35.43)	913 (35.94)	932 (36.69)
1,050 (41.34)	1,063 (41.85)	1,082 (42.6)
1,200 (47.24)	1,213 (47.75)	1,232 (48.5)
1,350 (53.15)	1,362 (53.62)	1,381 (54.37)
1,500 (59.06)	1,512 (59.53)	1,531 (60.28)
1,650 (64.96)	1,662 (65.43)	1,681 (66.18)

Protective field height	L1	L2
1,800 (70.87)	1,812 (71.34)	1,831 (72.09)
1,950 (76.77)	1,962 (77.24)	1,981 (77.99)
2,100 (82.68)	2,112 (83.15)	2,131 (83.9)

**Recommended accessories**

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

	Description	Type	Part no.
Others			
	deTec deTec system plug	1000	2076832
		1100	2076833
		1200	2076834
		1300	2076835

## 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)