

C4P-SA12031A00

deTec

**SAFETY LIGHT CURTAINS** 





# Ordering information

Туре	Part no.
C4P-SA12031A00	1220129

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

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



# Detailed technical data

#### **Features**

Items supplied	Sender
Application	Normal industrial environment
Resolution	30 mm
Protective field height	1,200 mm
Scanning range	30 m
No blind zones	Yes
Synchronization	Optical synchronisation
Integrated laser alignment aid	✓

# Safety-related parameters

Туре	Type 4 (IEC 61496-1)
Safety integrity level	SIL3 (IEC 61508) SILCL3 (IEC 62061)
Category	Category 4 (ISO 13849-1)
Performance level	PL e (ISO 13849-1)
$\ensuremath{PFH_D}$ (mean probability of a dangerous failure per hour)	
Single device	1.53 x 10 <sup>-8</sup>
Cascade with one guest	3.05 x 10- <sup>8</sup>
Cascade with two guest devices	4.56 x 10- <sup>8</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	✓
Automatic calibration of the protective field width	✓
Beam coding	✓

Cascading	<b>√</b>
Smart presence detection	✓

#### Interfaces

Connection type	Not included (system plug required)
Configuration method	DIP switch on system plug
Display elements	LEDs
Fieldbus, industrial network	
Integration via Flexi Soft safety controller	CANopen, DeviceNet $^{\text{TM}}$ , EtherCAT $^{\otimes}$ , EtherNet/IP $^{\text{TM}}$ , Modbus TCP, PROFIBUS DP, PROFINET $^{1)}$

 $<sup>^{1)}</sup>$  For additional information on Flexi Soft -> www.sick.com/Flexi\_Soft.

# 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	1.68 W (DC)

#### Mechanical data

Dimensions	See dimensional drawing
Housing material	Aluminum extruded profile

#### 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

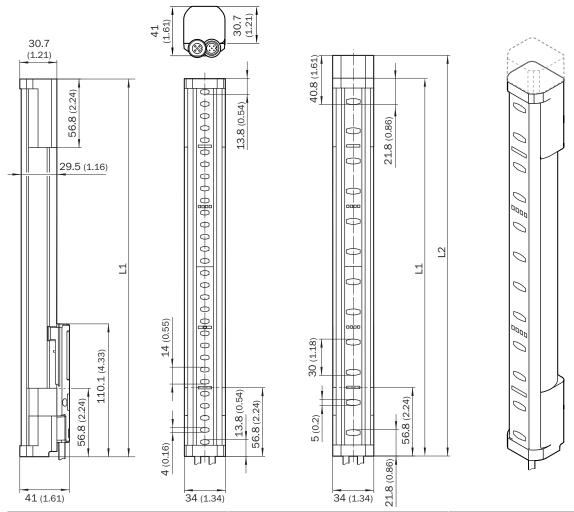
Wave length	850 nm
Type of light	Near-infrared (NIR), invisible
Integrated laser alignment aid	✓
Laser class	1
Type of light	Visible red light
Wave length	650 nm

# Classifications

ECI@ss 5.0	27272704
ECI@ss 5.1.4	27272704
ECI@ss 6.0	27272704
ECI@ss 6.2	27272704
ECI@ss 7.0	27272704
ECI@ss 8.0	27272704
ECI@ss 8.1	27272704

ECI@ss 9.0	27272704
ETIM 5.0	EC002549
ETIM 6.0	EC002549
UNSPSC 16.0901	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)

Protective field height	L1	L2
1,650 (64.96)	1,662 (65.43)	1,681 (66.18)
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

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

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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

