



**SAFETY LIGHT CURTAINS** 



SAFETY LIGHT CURTAINS



#### Ordering information

Resolution	Scanning range	Protective field height	System part	Туре	Part no.
14 mm	10 m	1,800 mm	Sender	C46S- 1801CT400	1040184

The C4000 Guest is only allowed to be connected to a C4000 Host safety light curtain with extension connection M12, 8-pin. Other models and accessories -> www.sick.com/C4000\_Advanced

Illustration may differ



#### Detailed technical data

reatures	
Application	Normal industrial environment
System part	Sender
Resolution	14 mm
Scanning range	10 m
Protective field height	1,800 mm
Synchronization	Optical synchronisation
Safety-related parameters	
Туре	Type 4 (IEC 61496-1)
Safety integrity level	SIL 3 (IEC 61508)
Category	Category 4 (EN ISO 13849)
Performance level	PL e (EN ISO 13849)
$\ensuremath{PFH}\xspace_{D}$ (mean probability of a dangerous failure per hour)	
Cascade with one guest	43 * 10 <sup>.9</sup>
T <sub>M</sub> (mission time)	20 years (EN ISO 13849)

#### Functions

	Functions	Delivery status
Protective operation	1	
Restart interlock	✓ <sup>1)</sup>	
External device monitoring (EDM)	1)	
Beam coding	✓ <sup>1)</sup>	Uncoded
Configurable scanning range	✓ <sup>1)</sup>	0 m 2.5 m

 $^{\mbox{1})}$  In conjunction with host device.

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	Functions	Dolivory status	
Fixed blanking	Functions	Delivery status Deactivated	
Floating blanking	у У	Deactivated	
Safe SICK device communication via EFI	v ✓		
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<sup>1)</sup> In conjunction with host device.			
Functions in combination with UE402			
Bypass			
Operating mode switching			
PSDI mode	✓		
Interfaces			
System connection	Fixed connection cable 320 mm with male conn	nector M12, 8-pin	
Direction of cable connection			
Conductor cross section			
Permitted cable length			
Display elements	7-segment display		
<sup>1)</sup> Between host and guest.			
Electrical data			
Protection class	III (IEC 61140)		
Supply voltage V <sub>s</sub>	24 V DC (19.2 V 28.8 V) <sup>1)</sup>		
Residual ripple	< 10 % <sup>2)</sup>		
$^{(1)}$ Voltage supply via host device. $^{(2)}$ Within the limits of ${\rm V}_{\rm S}.$			
Mechanical data			
Dimensions	See dimensional drawing		
Housing cross-section	48 mm x 40 mm		
Housing material	Aluminum extruded profile		
Weight	3,680 g		
Ambient data			
Enclosure rating	IP65 (EN 60529)		
Ambient operating temperature	0 °C +55 °C		
Storage temperature	-25 °C +70 °C		
Air humidity	15 % 95 %, Non-condensing		
Vibration resistance	5 g, 10 Hz 55 Hz (EN 60068-2-6)		
Shock resistance	10 g, 16 ms (EN 60068-2-27)		
Other information			
Wave length	850 nm		
Classifications			
ECLASS 5.0	27272704		
ECLASS 5.1.4	27272704		

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

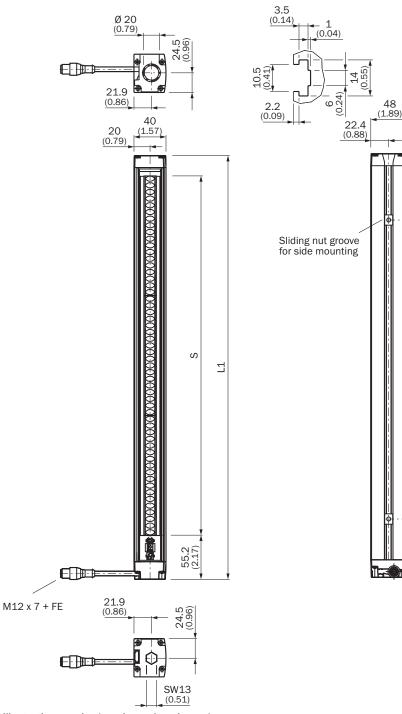


Illustration sender (receiver mirror image)

Protective field height S	L	A
150	220	76
300	380	224
450	530	374
600	680	524
750	830	674

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73 (2.87)

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Protective field height S	L	A
900	981	825
1.050	1.131	975
1.200	1.281	1.125
1.350	1.432	1.275
1.500	1.583	1.427
1.650	1.733	1.504
1.800	1.884	1.728

#### **Recommended accessories**

Other models and accessories → www.sick.com/C4000\_Advanced

	Brief description	Туре	Part no.		
Alignment aid	Alignment aids				
Ŵ	Laser alignment aid for various sensors, laser class 2 (IEC 60825). Do not look into the beam!, 19 mm x 67.3 mm x 66.9 mm	AR60	1015741		
	Adapter AR60 for housing cross-section 48 mm x 40 mm	AR60 adapter, 48x40	4032461		
	Adapter AR60 for housing cross-section 48 mm x 40 mm in PU3H device column	AR60 adapter, 48x40, PU3H	4056731		
Optics cloths					
SICK	Cloth for cleaning optical surfaces	Lens cloth	4003353		
Mounting brac	ckets and plates				
	4 pieces, Mounting kit 1, mounting bracket, rigid, L-shaped, including fixing screws and washers	BEF-3WNGBAST4	7021352		
Terminal and	Terminal and alignment brackets				
	4 pieces, Mounting kit 6, side bracket, rotatable, zinc diecast	BEF-1SHABAZN4	2019506		
Q	4 pieces, Omega bracket, rotatable, fixable with only one screw, for mounting on the swivel mount	BEF-2SMMEAAL4	2044847		
	4 pieces, Stainless steel bracket, rotatable, stainless steel 1.4350, stainless steel 1.4301	BEF-2SMMEAES4	2023708		
	4 pieces, Mounting kit 2, rotatable, swivel mount, Polyamide PA6	BEF-2SMMEAKU4	2019659		

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	Brief description	Туре	Part no.	
Others				
	<ul> <li>Connection type head A: Male connector, M8, 4-pin, straight</li> <li>Connection type head B: Male connector, USB-A, straight</li> <li>Cable: 2 m, 4-wire, PVC</li> <li>Description: Unshielded, Configuration cable with integrated RS-232 transducer on USB for connecting a sensor configuration connection (M8, 4-pin) to the USB interface of a PC</li> </ul>	DSL-8U04G02M025KM1	6034574	
	<ul> <li>Connection type head A: Male connector, M8, 4-pin, straight</li> <li>Connection type head B: Male connector, USB-A, straight</li> <li>Cable: 10 m, 4-wire, PVC</li> <li>Description: Unshielded, Configuration cable with integrated RS-232 transducer on USB for connecting a sensor configuration connection (M8, 4-pin) to the USB interface of a PC</li> </ul>	DSL-8U04G10M025KM1	6034575	
100	<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight</li> <li>Connection type head B: Male connector, M12, 8-pin, straight</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 1 m, 7-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, shielded</li> </ul>	DSL-127SG01ME25KM0	2076628	
Switching amplifiers				
	<ul> <li>Applications: Functionality upgrade</li> <li>Compatible sensor types: C4000 safety light curtains</li> <li>Description: Upgrades the C4000 Standard, Advanced, Palletizer, Entry/Exit, and Fusion to include the functions defined in the technical specifications, e.g., bypass, operating mode switching, and PSDI in the case of C4000 Standard, Advanced.</li> </ul>	UE402	1023577	

## 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



Online data sheet

