

# C46S-0303CT500

C4000 Advanced

**SAFETY LIGHT CURTAINS**

**SICK**  
Sensor Intelligence.



### Ordering information

Type	part no.
C46S-0303CT500	1028903

Other models and accessories → [www.sick.com/C4000\\_Advanced](http://www.sick.com/C4000_Advanced)

Illustration may differ



### Detailed technical data

#### Features

<b>Application</b>	Normal industrial environment
<b>System part</b>	Sender
<b>Resolution</b>	30 mm
<b>Scanning range</b>	21 m
<b>Protective field height</b>	300 mm
<b>Synchronization</b>	Optical synchronization

#### Safety-related parameters

<b>Type</b>	Type 4 (IEC 61496-1)
<b>Safety integrity level</b>	SIL 3 (IEC 61508)
<b>Category</b>	Category 4 (EN ISO 13849)
<b>Performance level</b>	PL e (EN ISO 13849)
<b>PFH<sub>D</sub> (mean probability of a dangerous failure per hour)</b>	43 * 10 <sup>-9</sup>
Cascade with one guest	
<b>T<sub>M</sub> (mission time)</b>	20 years (EN ISO 13849)

#### Functions

	Functions	Delivery status
<b>Protective operation</b>	✓	
<b>Restart interlock</b>	✓ <sup>1)</sup>	
<b>External device monitoring (EDM)</b>	1)	

<sup>1)</sup> In conjunction with host device.

<b>Beam coding</b>	✓ <sup>1)</sup>	Uncoded
<b>Configurable scanning range</b>	✓ <sup>1)</sup>	0 m ... 6 m
<b>Fixed blanking</b>	✓	Deactivated
<b>Floating blanking</b>	✓	Deactivated
<b>Safe SICK device communication via EFI</b>	✓	

<sup>1)</sup> In conjunction with host device.

### Functions in combination with UE402

<b>Bypass</b>	✓
<b>Operating mode switching</b>	✓
<b>PSDI mode</b>	✓

### Interfaces

<b>System connection</b>	Fixed connection cable 320 mm with male connector M12, 8-pin
Direction of cable connection	Angled
Conductor cross section	0.25 mm <sup>2</sup>
Permitted cable length	3 m <sup>1)</sup>
<b>Display elements</b>	7-segment display

<sup>1)</sup> Between host and guest.

### Electronics

<b>Protection class</b>	III (IEC 61140)
<b>Supply voltage <math>V_S</math></b>	24 V DC (19.2 V ... 28.8 V) <sup>1)</sup>
<b>Residual ripple</b>	≤ 10 % <sup>2)</sup>

<sup>1)</sup> Voltage supply via host device.

<sup>2)</sup> Within the limits of  $V_S$ .

### Mechanics

<b>Dimensions</b>	See dimensional drawing
<b>Housing cross-section</b>	48 mm x 40 mm
<b>Housing material</b>	Aluminum extruded profile
<b>Weight</b>	820 g

### Ambient data

<b>Enclosure rating</b>	IP65 (EN 60529)
<b>Ambient operating temperature</b>	0 °C ... +55 °C
<b>Storage temperature</b>	-25 °C ... +70 °C
<b>Air humidity</b>	15 % ... 95 %, Non-condensing
<b>Vibration resistance</b>	5 g, 10 Hz ... 55 Hz (EN 60068-2-6)
<b>Shock resistance</b>	10 g, 16 ms (EN 60068-2-27)

### Other information

<b>Wave length</b>	850 nm
--------------------	--------

### Certificates

<b>EU declaration of conformity</b>	✓
-------------------------------------	---

<b>UK declaration of conformity</b>	✓
<b>ACMA declaration of conformity</b>	✓
<b>Moroccan declaration of conformity</b>	✓
<b>China RoHS</b>	✓
<b>ULus approval</b>	✓
<b>cUL approval</b>	✓
<b>EC-Type-Examination approval</b>	✓
<b>China GB certificate</b>	✓
<b>Information according to Art. 3 of Data Act (Regulation EU 2023/2854)</b>	✓

### Classifications

<b>ECLASS 5.0</b>	27272704
<b>ECLASS 5.1.4</b>	27272704
<b>ECLASS 6.0</b>	27272704
<b>ECLASS 6.2</b>	27272704
<b>ECLASS 7.0</b>	27272704
<b>ECLASS 8.0</b>	27272704
<b>ECLASS 8.1</b>	27272704
<b>ECLASS 9.0</b>	27272704
<b>ECLASS 10.0</b>	27272704
<b>ECLASS 11.0</b>	27272704
<b>ECLASS 12.0</b>	27272704
<b>ETIM 5.0</b>	EC002549
<b>ETIM 6.0</b>	EC002549
<b>ETIM 7.0</b>	EC002549
<b>ETIM 8.0</b>	EC002549
<b>UNSPSC 16.0901</b>	46171620

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
900	981	825

Protective field height S	L	A
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](http://www.sick.com/C4000_Advanced)

	Brief description	Type	part no.
device protection and care			
	<ul style="list-style-type: none"> <li><b>Product family:</b> Cleaning agents</li> <li><b>Description:</b> Cloth for cleaning optical surfaces</li> </ul>	Lens cloth	4003353
Mounting systems			
	<ul style="list-style-type: none"> <li><b>Description:</b> Mounting kit 6, side bracket, rotatable</li> <li><b>Material:</b> Zinc diecast</li> <li><b>Details:</b> Zinc diecast</li> <li><b>Packing unit:</b> 4 pieces</li> <li><b>Suitable for:</b> All protective field heights</li> </ul>	BEF-1SHABAZN4	2019506
	<ul style="list-style-type: none"> <li><b>Description:</b> Mounting kit 2, rotatable, swivel mount</li> <li><b>Material:</b> Plastic</li> <li><b>Details:</b> Polyamide PA6</li> <li><b>Packing unit:</b> 4 pieces</li> <li><b>Suitable for:</b> All protective field heights</li> </ul>	BEF-2SMMEAKU4	2019659
	<ul style="list-style-type: none"> <li><b>Description:</b> Mounting kit 1, mounting bracket, rigid, L-shaped, including fixing screws and washers</li> <li><b>Packing unit:</b> 4 pieces</li> <li><b>Suitable for:</b> All protective field heights</li> </ul>	BEF-3WNGBAST4	7021352
	<ul style="list-style-type: none"> <li><b>Description:</b> Stainless steel bracket, rotatable</li> <li><b>Material:</b> Stainless steel</li> <li><b>Details:</b> Stainless steel 1.4350, stainless steel 1.4301</li> <li><b>Packing unit:</b> 4 pieces</li> </ul>	BEF-2SMMEAES4	2023708
	<ul style="list-style-type: none"> <li><b>Description:</b> Omega bracket, rotatable, fixable with only one screw, for mounting on the swivel mount</li> <li><b>Packing unit:</b> 4 pieces</li> <li><b>Suitable for:</b> All protective field heights in large housing</li> </ul>	BEF-2SMMEAAL4	2044847

	Brief description	Type	part no.
Commissioning aids and test equipment			
	<ul style="list-style-type: none"> <li>• <b>Product:</b> Alignment aids</li> <li>• <b>Dimensions (W x H x L):</b> 19 mm 67.3 mm 66.9 mm</li> <li>• <b>Description:</b> Laser alignment aid for various sensors, laser class 2 (IEC 60825). Do not look into the beam!</li> </ul>	AR60	1015741
	<ul style="list-style-type: none"> <li>• <b>Product:</b> Alignment aids</li> <li>• <b>Description:</b> Adapter AR60 for housing cross-section 48 mm x 40 mm</li> </ul>	AR60 adapter, 48x40	4032461
	<ul style="list-style-type: none"> <li>• <b>Product:</b> Alignment aids</li> <li>• <b>Description:</b> Adapter AR60 for housing cross-section 48 mm x 40 mm in PU3H device column</li> </ul>	AR60 adapter, 48x40, PU3H	4056731
connectors and cables			
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Unshielded</li> <li>• <b>Connection type head A:</b> Male connector, M8, 4-pin, straight</li> <li>• <b>Connection type head B:</b> Male connector, USB-A, straight</li> <li>• <b>Cable:</b> 2 m, 4-wire, PVC</li> </ul>	DSL-8U04G02M025KM2	6034574
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Unshielded</li> <li>• <b>Connection type head A:</b> Male connector, M8, 4-pin, straight</li> <li>• <b>Connection type head B:</b> Male connector, USB-A, straight</li> <li>• <b>Cable:</b> 10 m, 4-wire, PVC</li> </ul>	DSL-8U04G10M025KM2	6034575
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Sensor/actuator cable, shielded</li> <li>• <b>Connection type head A:</b> Female connector, M12, 8-pin, straight</li> <li>• <b>Connection type head B:</b> Male connector, M12, 8-pin, straight</li> <li>• <b>Signal type:</b> Sensor/actuator cable</li> <li>• <b>Cable:</b> 1 m, 7-wire, PUR, halogen-free</li> </ul>	DSL-127SG01ME25KM2	2076628
system plugs and extension modules			
	<ul style="list-style-type: none"> <li>• <b>Applications:</b> Functionality upgrade</li> <li>• <b>Compatible sensor types:</b> C4000 safety light curtains</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](http://www.sick.com)