

C46E-0403CU400

C4000 Advanced

SAFETY LIGHT CURTAINS



SICK C 4000 manual same

Ordering information

Туре	part no.
C46E-0403CU400	1028891

Other models and accessories → www.sick.com/C4000_Advanced

Illustration may differ



Detailed technical data

Features

Application	Normal industrial environment
System part	Receiver
Resolution	30 mm
Scanning range	21 m
Protective field height	450 mm
Response time	10 ms ¹⁾
Synchronization	Optical synchronization

 $^{^{1)}}$ Without beam coding, without blanking, no cascaded systems. Other response times see operating instructions.

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)
$\ensuremath{PFH_D}$ (mean probability of a dangerous failure per hour)	
Cascade with one guest	43 * 10 ⁻⁹
T _M (mission time)	20 years (EN ISO 13849)

Functions

	Functions	Delivery status
Protective operation	✓	

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

Restart interlock	✓ ¹)	External
External device monitoring (EDM)	1)	
Beam coding	✓ ¹)	Uncoded
Configurable scanning range	✓ ¹⁾	0 m 6 m
Fixed blanking	1	Deactivated
Floating blanking	1	Deactivated
Safe SICK device communication via EFI	1	

¹⁾ 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 connector M12, 8-pin
Direction of cable connection	Straight
Conductor cross section	0.25 mm ²
Permitted cable length	3 m $^{1)}$
Configuration method	PC with CDS (Configuration and Diagnostic Software) Via host device
Display elements	7-segment display

 $^{^{1)}}$ Between host and guest.

Electronics

Protection class	III (IEC 61140)
Supply voltage V_S	24 V DC (19.2 V 28.8 V) ¹⁾
Residual ripple	≤ 10 % ²⁾

 $^{^{1)}}$ Voltage supply via host device. $^{2)}$ Within the limits of $\mbox{V}_{\mbox{\scriptsize S}}.$

Mechanics

Dimensions	See dimensional drawing
Housing cross-section	48 mm x 40 mm
Housing material	Aluminum extruded profile
Weight	1,130 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)

C46E-0403CU400 | C4000 Advanced

SAFETY LIGHT CURTAINS

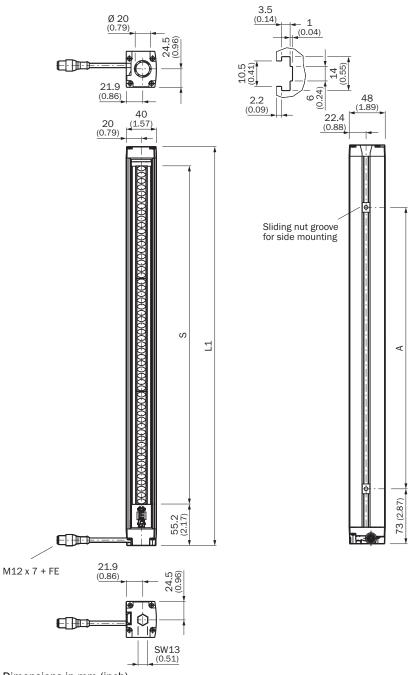
Other information

Wave length	850 nm
Classifications	
ECLASS 5.0	27272704
ECLASS 5.1.4	27272704
ECLASS 6.0	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
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
UNSPSC 16.0901	46171620

Certificates

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

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

	Brief description	Туре	part no.		
device protec	device protection and care				
SICK	 Product family: Cleaning agents Description: Cloth for cleaning optical surfaces 	Lens cloth	4003353		
Mounting sys	tems				
	 Description: Mounting kit 6, side bracket, rotatable Material: Zinc diecast Details: Zinc diecast Packing unit: 4 pieces Suitable for: All protective field heights 	BEF-1SHABAZN4	2019506		
	 Description: Mounting kit 2, rotatable, swivel mount Material: Plastic Details: Polyamide PA6 Packing unit: 4 pieces Suitable for: All protective field heights 	BEF-2SMMEAKU4	2019659		
	 Description: Mounting kit 1, mounting bracket, rigid, L-shaped, including fixing screws and washers Packing unit: 4 pieces Suitable for: All protective field heights 	BEF-3WNGBAST4	7021352		
	 Description: Stainless steel bracket, rotatable Material: Stainless steel Details: Stainless steel 1.4350, stainless steel 1.4301 Packing unit: 4 pieces 	BEF-2SMMEAES4	2023708		
9	 Description: Omega bracket, rotatable, fixable with only one screw, for mounting on the swivel mount Packing unit: 4 pieces Suitable for: All protective field heights in large housing 	BEF-2SMMEAAL4	2044847		

	Brief description	Туре	part no.
Commissionir	ng aids and test equipment		
	 Product: Alignment aids Dimensions (W x H x L): 19 mm 67.3 mm 66.9 mm Description: Laser alignment aid for various sensors, laser class 2 (IEC 60825). Do not look into the beam! 	AR60	1015741
	 Product: Alignment aids Description: Adapter AR60 for housing cross-section 48 mm x 40 mm 	AR60 adapter, 48x40	4032461
I	Product: Alignment aids Description: Adapter AR60 for housing cross-section 48 mm x 40 mm in PU3H device column	AR60 adapter, 48x40, PU3H	4056731
connectors ar	nd cables		
No.	Connection type head A: Male connector, M8, 4-pin, straight Connection type head B: Male connector, USB-A, straight Cable: 2 m, 4-wire, PVC Description: Unshielded	DSL-8U04G02M025KM:	6034574
No.	 Connection type head A: Male connector, M8, 4-pin, straight Connection type head B: Male connector, USB-A, straight Cable: 10 m, 4-wire, PVC Description: Unshielded 	DSL-8U04G10M025KM1	6034575
66	 Connection type head A: Female connector, M12, 8-pin, straight Connection type head B: Male connector, M12, 8-pin, straight Signal type: Sensor/actuator cable Cable: 1 m, 7-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded 	DSL-127SG01ME25KM(2076628
system plugs	and extension modules		
1880 III	 Applications: Functionality upgrade 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. Compatible sensor types: C4000 safety light curtains 	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

