

C40S-S119

C4000 Standard ATEX II 3G/3D

SAFETY LIGHT CURTAINS





Ordering information

Туре	part no.
C40S-S119	1050718

Other models and accessories → www.sick.com/C4000_Standard_ATEX_II_3G_3D

Illustration may differ



Detailed technical data

Features

Application	Explosive areas
Ex-approvals	ATEX for gas: II 3G Ex nA op is IIC T4 Gc X ATEX for dust: II 3D Ex tc IIIC T135°C Dc
Resolution	40 mm
Scanning range	21 m
Protective field height	600 mm
Synchronization	Optical synchronization

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)
$\mbox{PFH}_{\mbox{\scriptsize D}}$ (mean probability of a dangerous failure per hour)	15 x 10 ⁻⁹ (EN ISO 13849)
T _M (mission time)	20 years (EN ISO 13849)
Safe state in the event of a fault	At least one OSSD is in the OFF state.

Functions

Protective operation	✓
Restart interlock	✓
External device monitoring (EDM)	✓
Beam coding	✓
Safe SICK device communication via EFI	✓

Interfaces

Configuration connection	Female connector M8, 4-pin
Configuration method	PC with CDS (Configuration and Diagnostic Software)
Display elements	7-segment display

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⁾ The external voltage supply must be capable of buffering brief mains voltage failures of 20 ms as specified in EN 60204-1. Suitable power supplies are available as accessories from SICK.

Mechanics

Dimensions	See dimensional drawing
Housing cross-section	48 mm x 40 mm
Housing material	Aluminum extruded profile

Ambient data

Enclosure rating	IP65 (EN 60529)
Ambient operating temperature	0 °C +55 °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
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Certificates

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

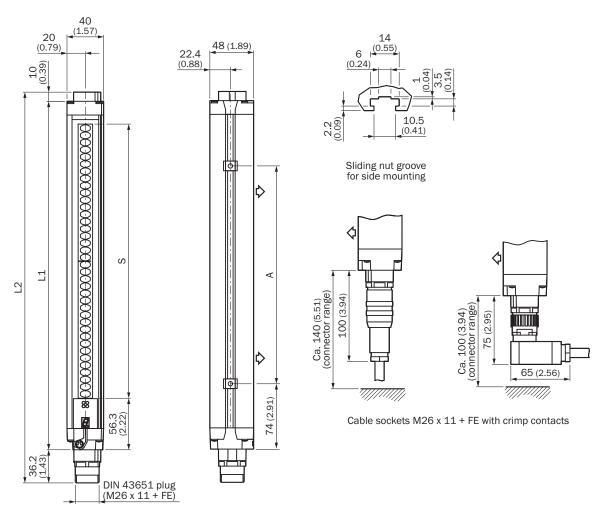
Classifications

ECLASS 5.0	27272704
ECLASS 5.1.4	27272704
ECLASS 6.0	27272704
ECLASS 6.2	27272704

 $^{^{2)}}$ Within the limits of V_S .

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

Dimensional drawing



Dimensions in mm (inch) illustration sender (receiver mirror image)

	L1	L2	A
300	381	427	224
450	532	578	374
600	682	728	524
750	833	879	674
900	984	1.030	824
1.050	1.134	1.180	974
1.200	1.283	1.329	1.124
1.350	1.435	1.481	1.274
1.500	1.586	1.632	1.424
1.650	1.736	1.782	1.574
1.800	1.887	1.933	1.724

Recommended accessories

Other models and accessories → www.sick.com/C4000_Standard_ATEX_II_3G_3D

	Brief description	Туре	part no.	
device protect	device protection and care			
SICK	 Product family: Cleaning agents Description: Cloth for cleaning optical surfaces 	Lens cloth	4003353	
system plugs	system plugs and extension modules			
	 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	

	Brief description	Туре	part no.
Mounting sys	stems		
(3)	 Description: Suitable for PNS75 and PNS125 Packing unit: 6 pieces 	Sliding nuts for deflector mirror	2030600
	 Description: Mounting kit 11, exchangeable retainer, suitable for replacement of FGS Packing unit: 4 pieces Suitable for: Large housing profile 	BEF-3WNGBCST4	2021646
	 Description: Stainless steel bracket, rotatable Material: Stainless steel Details: Stainless steel 1.4350, stainless steel 1.4301 Packing unit: 4 pieces 	BEF-2SMMEAES4	2023708
	 Description: Reinforced stainless steel bracket, rotatable Material: Stainless steel Details: Stainless steel 1.4350, stainless steel 1.4301 Packing unit: 4 pieces 	BEF-2SMMVAES4	2026850
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
	 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: Mounting kit 3, rotatable, with shock-absorber Packing unit: 4 pieces 	BEF-1SHADAAL4	2017752
6	 Description: Mounting kit, rotatable, telescopic, swivel mount Material: Plastic Details: Polyamide PA6 Packing unit: 2 pieces Suitable for: All protective field heights in large housing 	BEF-0SMMEA002	2046172
	 Description: Sliding nut set, M5, 4x Packing unit: 4 pieces Items supplied: Included in delivery 	Sliding nuts	2017550
	Description: Reinforced stainless steel bracket, rotatable Material: Stainless steel Details: Stainless steel 1.4350, stainless steel 1.4301 Packing unit: 2 pieces	BEF-2SMMVAES2	2048373
3	IGHT CURTAINS SICK		2025-12-11 14:01:2 hange without notic

	Brief description	Туре	part no.
network devices			
100		UE4740-22H0000	1046978
Commissionin	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
	 Product: Alignment aids Description: Adapter AR60 for housing cross-section 48 mm x 40 mm in PU3H device column 	AR60 adapter, 48x40, PU3H	4056731

	Brief description	Туре	part no.	
connectors and cables				
	Connection type head A: Male connector, M26, 12-pin, straight, A-coded Description: Unshielded Connection systems: Crimp contacts Permitted cross-section: 0.5 mm² 1.5 mm² Note: 12 crimping contacts enclosed	STE-0612G000GA3KM(6021191	
	Connection type head A: Male connector, M26, 12-pin, angled, A-coded Description: Unshielded Connection systems: Crimp contacts Permitted cross-section: 0.5 mm² 1.5 mm² Note: 12 crimping contacts enclosed	STE-0612W000GA3KM(6021192	
	Connection type head A: Female connector, M26, 12-pin, straight, A-coded Description: Unshielded Connection systems: Crimp contacts Permitted cross-section: 0.5 mm² 1.5 mm² Note: 12 crimping contacts enclosed	DOS-0612G000GA3KM(6020757	
	Connection type head A: Female connector, M26, 12-pin, angled, A-coded Description: Unshielded Connection systems: Crimp contacts Permitted cross-section: 0.5 mm² 1.5 mm² Note: 12 crimping contacts enclosed	DOS-0612W000GA3KM(6020758	
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-8U04G10M025KM:	6034575	
	Connection type head A: Female connector, M26, 12-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 12-wire, PVC Description: Sensor/actuator cable, unshielded Connection systems: Flying leads	DOL-0612G05M075KM(2022545	
	Connection type head A: Female connector, M26, 12-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 12-wire, PVC Description: Sensor/actuator cable, unshielded Connection systems: Flying leads	DOL-0612G10M075KM(2022547	
	Connection type head A: Female connector, M26, 12-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 15 m, 12-wire, PVC Description: Sensor/actuator cable, unshielded Connection systems: Flying leads	DOL-0612G15M075KM(2022548	
	Connection type head A: Female connector, M26, 12-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2.5 m, 12-wire, PVC Description: Sensor/actuator cable, unshielded Connection systems: Flying leads	DOL-0612G2M5075KM(2022544	
	Connection type head A: Female connector, M26, 12-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 20 m, 12-wire, PVC Description: Sensor/actuator cable, unshielded Connection systems: Flying leads	DOL-0612G20M075KM(2022549	
	Connection type head A: Female connector, M26, 12-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 30 m, 12-wire, PVC Description: Sensor/actuator cable, unshielded	DOL-0612G30M075KM(2022550	

	Brief description	Туре	part no.
	Connection systems: Flying leads		
	 Connection type head A: Female connector, M26, 12-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 50 m, PVC Description: Sensor/actuator cable, unshielded Connection systems: Flying leads 	DOL-0612G50M075KM(2033548
	 Connection type head A: Female connector, M26, 12-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 7.5 m, 12-wire, PVC Description: Sensor/actuator cable, unshielded Connection systems: Flying leads 	DOL-0612G7M5075KM(2022546
	 Connection type head A: Female connector, M26, 12-pin, straight Connection type head B: Flying leads Cable: 20 m, PVC Description: Unshielded Connection systems: Flying leads Note: Without EFI: Pin 9 and 10 not connected 	DOL-0610G20M075KM:	2046890
	Connection type head A: Female connector, M26, 12-pin, straight Connection type head B: Flying leads Cable: 5 m, PVC Description: Unshielded Connection systems: Flying leads Note: Without EFI: Pin 9 and 10 not connected	DOL-0610G05M075KM:	2046888
	Connection type head A: Female connector, M26, 12-pin, straight Connection type head B: Flying leads Cable: 10 m, PVC Description: Unshielded Connection systems: Flying leads Note: Without EFI: Pin 9 and 10 not connected	DOL-0610G10M075KM:	2046889
0	Connection type head A: Flying leads Connection type head B: Flying leads Items supplied: By the meter Cable: 12-wire, PVC Description: Unshielded Note: max. 100 m, fitting for EFI connections	Connecting cable	6021437

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."

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