



C40E-S118

C4000 Standard ATEX II 3G/3D

SAFETY LIGHT CURTAINS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
C40E-S118	1050717

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
System part	Receiver
Resolution	30 mm
Scanning range	21 m
Protective field height	1,050 mm
Synchronization	Optical synchronization

Safety-related parameters

Type	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)
PFH_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.

²⁾ Within the limits of V_S .

Mechanics

Dimensions

See dimensional drawing

Housing cross-section

48 mm x 40 mm

Housing material

Aluminum extruded profile

Weight

2,280 g

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

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)

✓

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

Dimensional drawing

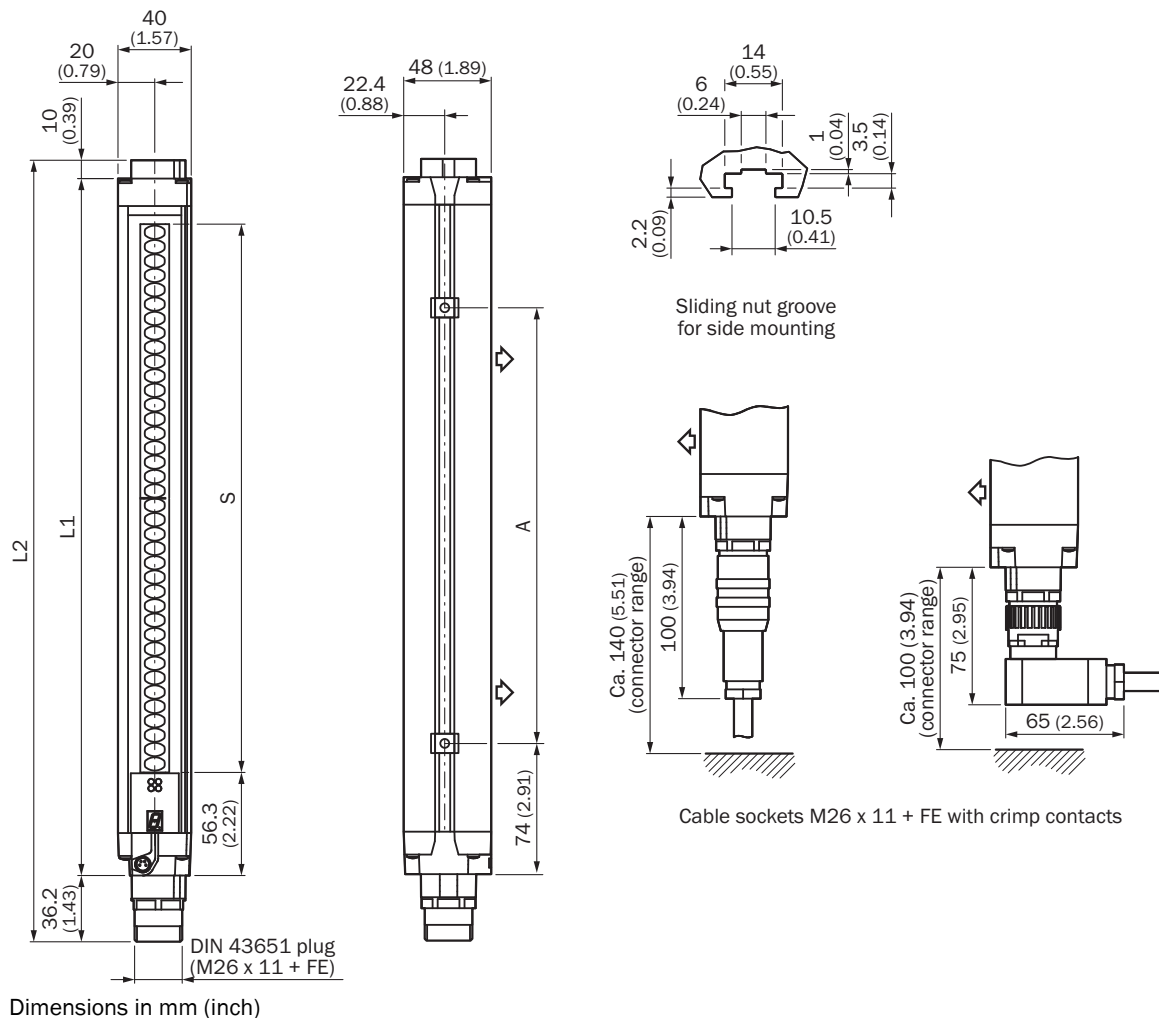


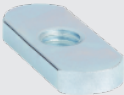
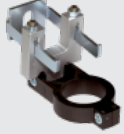
illustration sender (receiver mirror image)

	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	Type	part no.
device protection and care			
	Product family: Cleaning agents Description: Cloth for cleaning optical surfaces	Lens cloth	4003353
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	Type	part no.
Mounting systems			
	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
	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
	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

	Brief description	Type	part no.
network devices			
		UE4740-22H0000	1046978
Commissioning 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	Type	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-0612G000GA3KMC	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-0612W000GA3KMC	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-0612G000GA3KMC	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-0612W000GA3KMC	6020758
	• 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
	• 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	Type	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-0612G50M075KM0	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-0612G7M5075KM0	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-0610G20M075KM0	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-0610G05M075KM0	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-0610G10M075KM0	2046889
	• 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.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com