C40S-0403AA030

C4000 Basic

SAFETY LIGHT CURTAINS

SICK
Sensor Intelligence.

C40S-0403AA030 | C4000 Basic

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Ordering information

Resolution	Protective field height	System part	Type	Part no.
30 mm	450 mm	Sender	C40S-0403AA030	1022220

There are several successor products for this product with different functional scopes. When selecting the successor product, please consider its corresponding functional scope. Adapter kits are available for easy replacement.

Other models and accessories ➜ www.sick.com/C4000_Basic

Illustration may differ

Detailed technical data

Features

System part	Sender
Resolution	30 mm
Scanning range	6 m
Protective field height	450 mm
Synchronization	Optical synchronisation

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)	$15 * 10^{-9}$ (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	✓

Interfaces

System connection	Hirschmann plug M26, 7-pin
Direction of cable connection	Straight
Conductor cross section	0.75 mm²
Permitted cable length	50 m [1]
Configuration method	Hard wired
Display elements	7-segment display

[1] Depending on load, power supply and wire cross-section. The technical specifications must be observed.

Electrical data

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.

Mechanical data

Dimensions	See dimensional drawing
Housing cross-section	48 mm x 40 mm
Housing material	Aluminum extruded profile
Weight	1,100 g

Ambient data

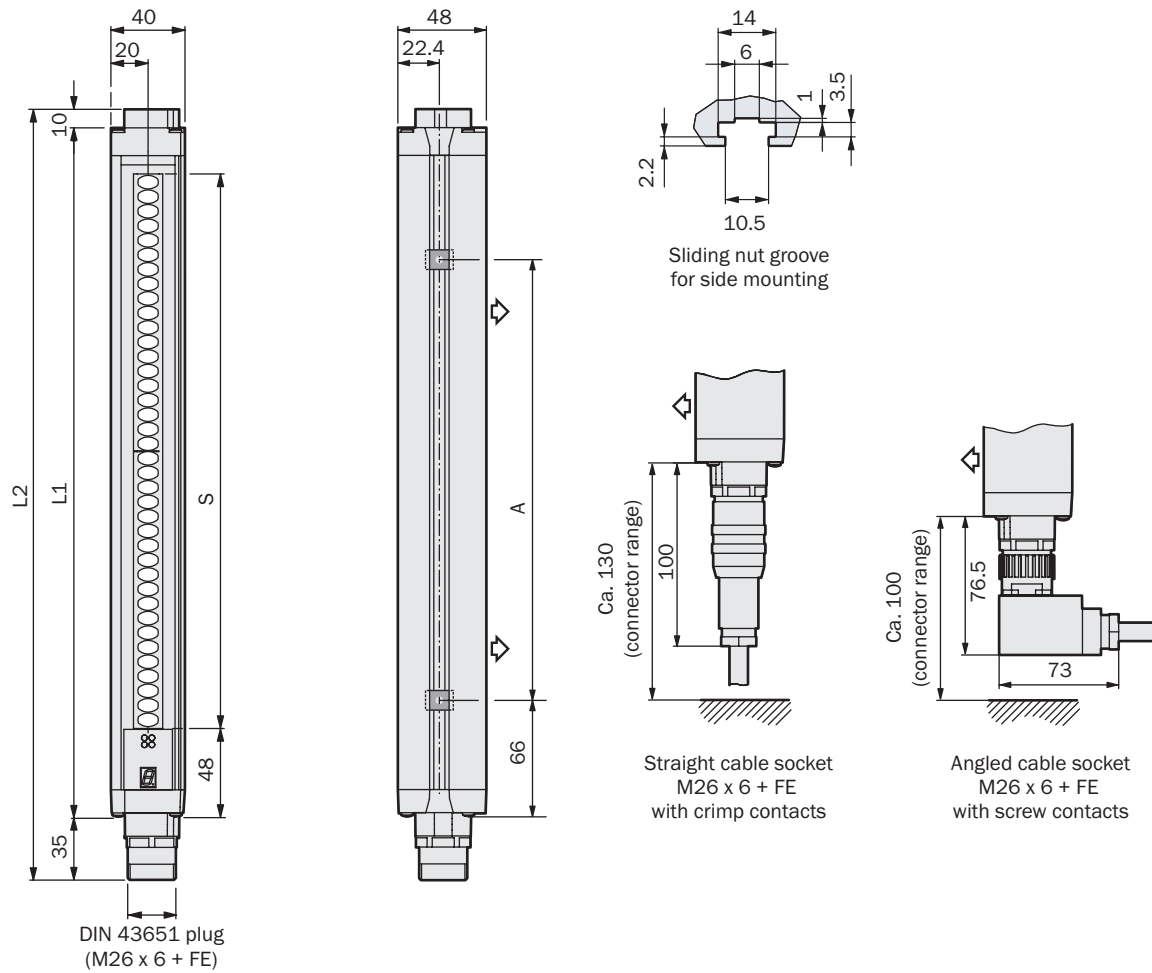| Enclosure rating	IP65 (IEC 60529)
Ambient operating temperature	0 °C ... +55 °C
Storage temperature	–25 °C ... +70 °C
Air humidity	15 % ... 95 %, Non-condensing
Vibration resistance	5 g, 10 Hz ... 55 Hz (EN 60068-2-6)
Shock resistance	10 g, 16 ms (EN 60068-2-27)

Other information

Wave length	850 nm

Classifications

ECLASS 5.0	27272704
ECLASS 5.1.4	27272704
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 (Dimensions in mm (inch))

Illustration sender (receiver mirror image)

Sliding nut groove
for side mounting

Ca. 130 (connector range)

Straight cable socket
M26 x 6 + FE
with crimp contacts

Ca. 100 (connector range)

Angled cable socket
M26 x 6 + FE
with screw contacts

DIN 43651 plug
(M26 x 6 + FE)

Protective field height S	L1	L2	A
300	372	417	224
450	523	568	374
600	674	718	524
750	824	869	674
900	975	1,020	824
1,050	1,125	1,170	974
1,200	1,274	1,319	1,124
1,350	1,426	1,471	1,274
1,500	1,577	1,622	1,424
1,650	1,727	1,772	1,574
1,800	1,878	1,923	1,724

Recommended accessories

Other models and accessories ➜ www.sick.com/C4000_Basic

	Brief description	**Type**	**Part no.**
Alignment aids			
	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			
	Cloth for cleaning optical surfaces	Lens cloth	4003353
Mounting brackets and plates			
	4 pieces, Mounting kit 1, mounting bracket, rigid, L-shaped, including fixing screws and washers	BEF-3WNGBAST4	7021352
Terminal and alignment brackets			
	4 pieces, Mounting kit 6, side bracket, rotatable, zinc diecast	BEF-1SHABAZN4	2019506
	4 pieces, Omega bracket, rotatable, fixable with only one screw, for mounting on the swivel mount	BEF-2SMMEAAL4	2044847
	4 pieces, Mounting kit 2, rotatable, swivel mount, Polyamide PA6	BEF-2SMMEAKU4	2019659
Others			
	• **Connection type head A:** Female connector, M26, 7-pin, straight • **Connection type head B:** Flying leads • **Signal type:** Sensor/actuator cable • **Cable:** 7.5 m, PVC • **Description:** Sensor/actuator cable, unshielded • **Connection systems:** Flying leads	DOL-0607G7M5075KM0	2023995
	• **Connection type head A:** Female connector, M26, 7-pin, straight • **Connection type head B:** Flying leads • **Signal type:** Sensor/actuator cable • **Cable:** 30 m, PVC • **Description:** Sensor/actuator cable, unshielded • **Connection systems:** Flying leads	DOL-0607G30M075KM0	2023999
	• **Connection type head A:** Female connector, M26, 7-pin, straight • **Connection type head B:** Flying leads • **Signal type:** Sensor/actuator cable • **Cable:** 20 m, PVC • **Description:** Sensor/actuator cable, unshielded • **Connection systems:** Flying leads	DOL-0607G20M075KM0	2023998

	Brief description	Type	Part no.
	• **Connection type head A:** Female connector, M26, 7-pin, straight • **Connection type head B:** Flying leads • **Signal type:** Sensor/actuator cable • **Cable:** 15 m, PVC • **Description:** Sensor/actuator cable, unshielded • **Connection systems:** Flying leads	DOL-0607G15M075KM0	2023997
	• **Connection type head A:** Female connector, M26, 7-pin, straight • **Connection type head B:** Flying leads • **Signal type:** Sensor/actuator cable • **Cable:** 10 m, PVC • **Description:** Sensor/actuator cable, unshielded • **Connection systems:** Flying leads	DOL-0607G10M075KM0	2023996
	• **Connection type head A:** Female connector, M26, 7-pin, straight • **Connection type head B:** Flying leads • **Signal type:** Sensor/actuator cable • **Cable:** 5 m, PVC • **Description:** Sensor/actuator cable, unshielded • **Connection systems:** Flying leads	DOL-0607G05M075KM0	2023994

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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