

# C40S-S149

C4000 Palletizer ATEX II 3G/3D

**SAFETY LIGHT CURTAINS** 





#### Ordering information

Illustration may differ

Resolution	Scanning range	Protective field height	System part	Туре	Part no.
40 mm	7 m	1,350 mm	Sender	C40S-S149	1099660

Other models and accessories → www.sick.com/C4000\_Palletizer\_ATEX\_II\_3G\_3D



#### Detailed technical data

#### **Features**

Application	Explosive areas
Ex-approvals	ATEX for gas: II 3G Ex nA op is IIC T4 Gc X
System part	Sender
Resolution	40 mm
Scanning range	7 m
Protective field height	1,350 mm
Synchronization	Optical synchronisation
Items supplied	Sender

#### 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)	15 * 10 <sup>.9</sup>
T <sub>M</sub> (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**

	Functions	Delivery status
Protective operation	1	
Beam coding	1	Code 1
Configurable scanning range	✓	0.5 m 7 m
Reduced resolution	✓	2 beams
Safe SICK device communication via EFI	✓	

#### Interfaces

System connection		Hirschmann male connector M26, 12-pin
	Direction of cable connection	Straight
	Conductor cross section	0.75 mm <sup>2</sup>
	Permitted cable length	≤ 50 m

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

#### Electrical data

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

<sup>1)</sup> 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.

#### Mechanical data

Dimensions	See dimensional drawing
Housing cross-section	40 mm x 48 mm
Housing material	Aluminum extruded profile
Weight	2,820 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)

#### Other information

Wave length	850 nm
Type of light	Near-infrared (NIR), invisible

#### 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

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

ETIM 8.0	EC002549
UNSPSC 16.0901	46171620

#### Dimensional drawing (Dimensions in mm (inch))

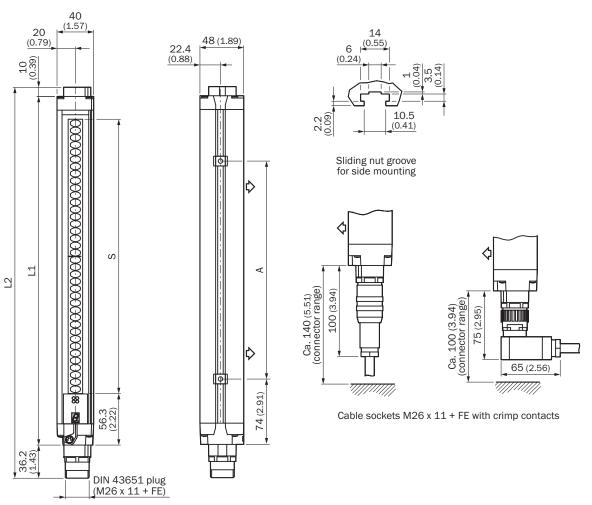


Illustration sender (receiver mirror image)

	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\_Palletizer\_ATEX\_II\_3G\_3D

	Brief description	Туре	Part no.
Optics cloths			
SICK	Cloth for cleaning optical surfaces	Lens cloth	4003353

### 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

