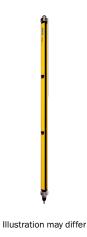


## C45E-0903AG220

C4000 Micro in IP69K Housing

**SAFETY LIGHT CURTAINS** 





#### Ordering information

Туре	part no.
C45E-0903AG220	1025745

Other models and accessories → www.sick.com/C4000\_Micro\_in\_IP69K\_Housing

#### Detailed technical data

#### **Features**

System part	Receiver
Resolution	30 mm
Scanning range	14.5 m
Protective field height	900 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)
$\ensuremath{PFH_D}$ (mean probability of a dangerous failure per hour)	15 * 10 <sup>-9</sup> (EN ISO 13849)
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	✓	
Restart interlock	✓	Internal
External device monitoring (EDM)	✓	Activated

#### Interfaces

System connection	
Direction of cable connection	Straight
Cable diameter	6 mm
Conductor cross section	0.25 mm <sup>2</sup>
Permitted cable length	15 m
Configuration method	Hard wired

Display elements	7-segment display
Electronics	
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>

Output signal switching devices (OSSDs)

Type of output 2 PNP semiconductors, short-circuit protected, cross-circuit monitored

ON state, switching voltage HIGH 24 V DC (15 V DC ... 28.8 V DC)

OFF state, switching voltage LOW 2 V DC

Current-carrying capacity per OSSD ≤ 500 mA

#### Mechanics

Housing diameter	50 mm
Material	
End caps	Stainless steel V4A
Plastic tube	PMMA
Compensating element (membrane)	PA 6
PG connector	PA 6

#### Ambient data

Enclosure rating	IP69K, IP67, IP66, IP65 (IEC 60529)
Ambient operating temperature	-30 °C +55 °C
Storage temperature	-30 °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

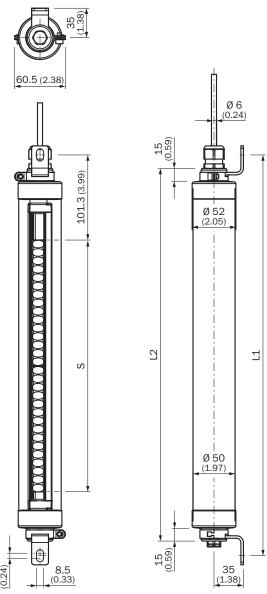
ECLASS 5.0	27272704
ECLASS 5.1.4	27272704
ECLASS 6.0	27272704
ECLASS 6.2	27272704
ECLASS 7.0	27272704
ECLASS 8.0	27272704
ECLASS 8.1	27272704
ECLASS 9.0	27272704
ECLASS 10.0	27272704
ECLASS 11.0	27272704

<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.

 $<sup>^{2)}</sup>$  Within the limits of  $\ensuremath{\text{V}_{\text{S}}}.$ 

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)

Protective field height S	L1	L2
150	357	324
300	476	443

Protective field height S	L1	L2
450	626	593
600	777	744
750	927	894
900	1.078	1.045
1.050	1.228	1.195
1.200	1.377	1.344
1.350	1.529	1.496
1.500	1.680	1.647
1.650	1.830	1.797
1.800	1.981	1.948

#### Recommended accessories

Other models and accessories → www.sick.com/C4000\_Micro\_in\_IP69K\_Housing

	Brief description	Туре	part no.	
device protection and care				
sick	<ul> <li>Product family: Cleaning agents</li> <li>Description: Cloth for cleaning optical surfaces</li> </ul>	Lens cloth	4003353	
	Description: Bidirectional ventilation membrane made from Gore-Tex	Bidirectional venti- lation membrane	5309082	

# C45E-0903AG220 | C4000 Micro in IP69K Housing SAFETY LIGHT CURTAINS

	Brief description	Туре	part no.	
Mounting systems				
	<ul> <li>Description: Stainless steel bracket, rotatable</li> <li>Material: Stainless steel</li> <li>Details: Stainless steel 1.4350, stainless steel 1.4301</li> <li>Packing unit: 4 pieces</li> </ul>	BEF-2SMMEAES4	2023708	
	<ul> <li>Description: Reinforced stainless steel bracket, rotatable</li> <li>Material: Stainless steel</li> <li>Details: Stainless steel 1.4350, stainless steel 1.4301</li> <li>Packing unit: 4 pieces</li> </ul>	BEF-2SMMVAES4	2026850	
	<ul> <li>Description: Stainless steel support bracket</li> <li>Material: Stainless steel</li> <li>Details: Stainless steel 1.4350</li> <li>Packing unit: 2 pieces</li> </ul>	BEF-2AAAADES2	2026849	
	<ul> <li>Description: Reinforced stainless steel bracket, rotatable</li> <li>Material: Stainless steel</li> <li>Details: Stainless steel 1.4350, stainless steel 1.4301</li> <li>Packing unit: 2 pieces</li> </ul>	BEF-2SMMVAES2	2048373	

#### 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

