



# C45E-0701BG220

C4000 Micro in IP69K Housing

**SAFETY LIGHT CURTAINS**

**SICK**  
Sensor Intelligence.



Illustration may differ

Ordering information

| Type           | part no. |
|----------------|----------|
| C45E-0701BG220 | 1025741  |

Other models and accessories → [www.sick.com/C4000\\_Micro\\_in\\_IP69K\\_Housing](http://www.sick.com/C4000_Micro_in_IP69K_Housing)

Detailed technical data

Features

|                         |                         |
|-------------------------|-------------------------|
| System part             | Receiver                |
| Resolution              | 14 mm                   |
| Scanning range          | 4 m                     |
| Protective field height | 750 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 <sub>D</sub> (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           |

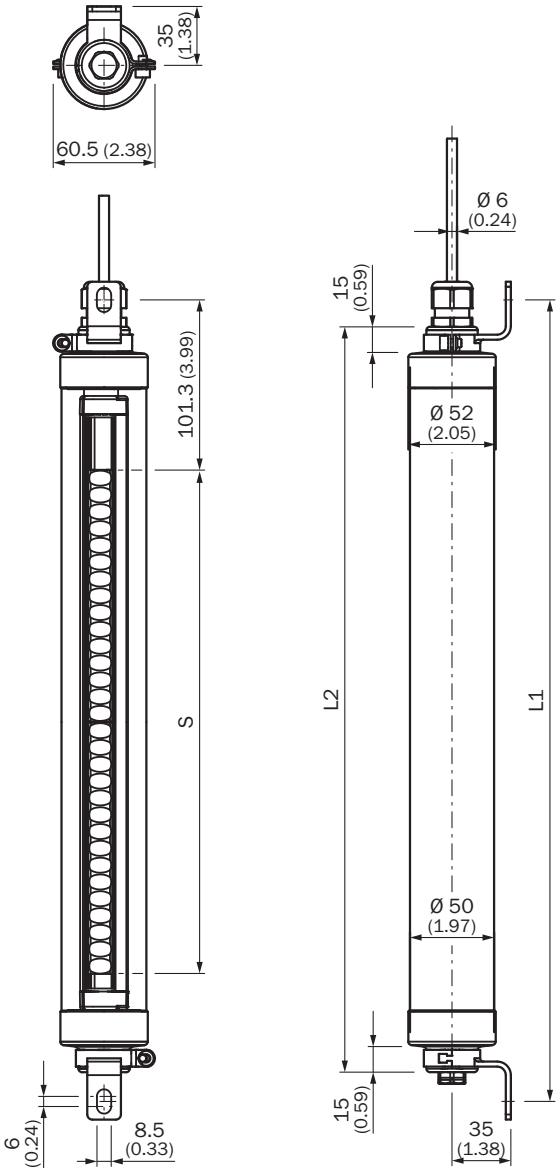


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|                |          |
|----------------|----------|
| ECLASS 12.0    | 27272704 |
| ETIM 5.0       | EC002549 |
| ETIM 6.0       | EC002549 |
| ETIM 7.0       | EC002549 |
| ETIM 8.0       | EC002549 |
| UNSPSC 16.0901 | 46171620 |

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](http://www.sick.com/C4000_Micro_in_IP69K_Housing)

|                                                                                     | Brief description                                                                                                                                         | Type                               | part no. |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------|
| device protection and care                                                          |                                                                                                                                                           |                                    |          |
|   | <ul style="list-style-type: none"> <li><b>Product family:</b> Cleaning agents</li> <li><b>Description:</b> Cloth for cleaning optical surfaces</li> </ul> | Lens cloth                         | 4003353  |
|  | <ul style="list-style-type: none"> <li><b>Description:</b> Bidirectional ventilation membrane made from Gore-Tex</li> </ul>                               | Bidirectional ventilation membrane | 5309082  |

|                                                                                   | Brief description                                                                                                                                                                                                                                                               | Type           | part no. |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Mounting systems                                                                  |                                                                                                                                                                                                                                                                                 |                |          |
|  | <ul style="list-style-type: none"><li>• <b>Description:</b> Stainless steel bracket, rotatable</li><li>• <b>Material:</b> Stainless steel</li><li>• <b>Details:</b> Stainless steel 1.4350, stainless steel 1.4301</li><li>• <b>Packing unit:</b> 4 pieces</li></ul>            | BEF-2SMMEAES4  | 2023708  |
|  | <ul style="list-style-type: none"><li>• <b>Description:</b> Reinforced stainless steel bracket, rotatable</li><li>• <b>Material:</b> Stainless steel</li><li>• <b>Details:</b> Stainless steel 1.4350, stainless steel 1.4301</li><li>• <b>Packing unit:</b> 4 pieces</li></ul> | BEF-2SMMVAES4  | 2026850  |
|  | <ul style="list-style-type: none"><li>• <b>Description:</b> Stainless steel support bracket</li><li>• <b>Material:</b> Stainless steel</li><li>• <b>Details:</b> Stainless steel 1.4350</li><li>• <b>Packing unit:</b> 2 pieces</li></ul>                                       | BEF-2AAAADDES2 | 2026849  |
|  | <ul style="list-style-type: none"><li>• <b>Description:</b> Reinforced stainless steel bracket, rotatable</li><li>• <b>Material:</b> Stainless steel</li><li>• <b>Details:</b> Stainless steel 1.4350, stainless steel 1.4301</li><li>• <b>Packing unit:</b> 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](http://www.sick.com)