



# GSE6-CA021K00

FlexChain

SWITCHING AUTOMATION LIGHT GRIDS

**SICK**  
Sensor Intelligence.



### Ordering information

| Type          | Part no. |
|---------------|----------|
| GSE6-CA021K00 | 1091605  |

Only in conjunction with FlexChain host

[1091608](https://www.sick.com/1091608) | FC1A-AZ2A1A: Standard I/O

[1091609](https://www.sick.com/1091609) | FC1A-BZ2A1A: Advanced I/O

[1091610](https://www.sick.com/1091610) | FC1A-CZ2A1A: RS-485

[1091611](https://www.sick.com/1091611) | FC1A-DZ2A1A: CANopen

Other models and accessories → [www.sick.com/FlexChain](https://www.sick.com/FlexChain)



### Detailed technical data

#### Features

|                         |                                      |
|-------------------------|--------------------------------------|
| <b>Device version</b>   | FlexChain Guest                      |
| <b>Sensor principle</b> | Sender/receiver<br>Light grid system |

#### Mechanics/electronics

|                                     |                                                                  |
|-------------------------------------|------------------------------------------------------------------|
| <b>Light source</b>                 | PinPoint LED, Infrared light                                     |
| <b>Light spot size (distance)</b>   | Ø 375 mm (12 m)                                                  |
| <b>Wave length</b>                  | 850 nm                                                           |
| <b>Supply voltage V<sub>s</sub></b> | 12 V, via FlexChain (host)                                       |
| <b>Adjustment</b>                   | Cable (Sensitivity)<br>Via FlexChain (host)                      |
| <b>Dimensions (W x H x D)</b>       | 12 mm x 31.5 mm x 21 mm                                          |
| <b>Connection type</b>              | Male connector M8, 4-pin, Cable with receptacle M8, 4-pin, 0.5 m |
| <b>Housing material</b>             | Plastic (ABS)                                                    |
| <b>Enclosure rating</b>             | IP65, IP67                                                       |
| <b>Protection class</b>             | III                                                              |
| <b>Weight</b>                       | Approx. 23 g                                                     |

#### Performance

|                        |      |
|------------------------|------|
| <b>Operating range</b> | 15 m |
|------------------------|------|

#### Ambient data

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>EMC</b>                           | EN 61000-6-2, EN 61000-6-3 |
| <b>Ambient operating temperature</b> | -25 °C +55 °C              |
| <b>Ambient storage temperature</b>   | -25 °C +70 °C              |

<sup>1)</sup> Sunlight.

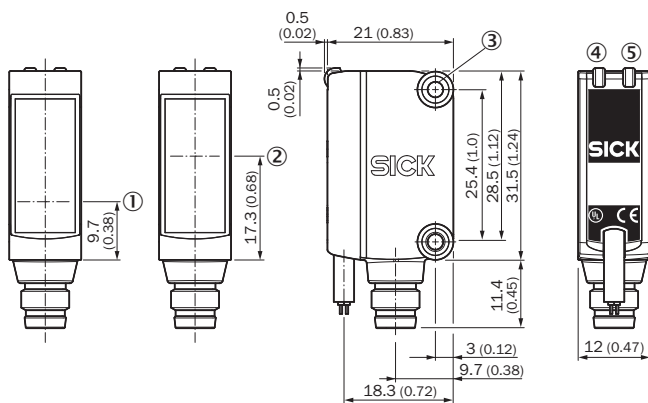
|                               |                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------|
| <b>Ambient light immunity</b> | Direct: 40,000 lx <sup>1)</sup>                                                      |
| <b>Vibration resistance</b>   | Sinusoidal oscillation 20-2,000 Hz 10 g, 3 h per axle                                |
| <b>Shock load</b>             | Single shocks 30 g, 11 ms 6 per axle<br>Continuous shocks 25 g, 6 ms, 1,000 per axis |

<sup>1)</sup> Sunlight.

## Classifications

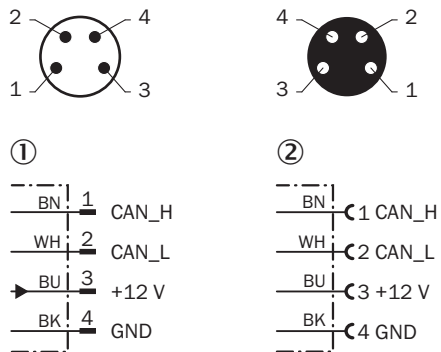
|                       |          |
|-----------------------|----------|
| <b>ECI@ss 5.0</b>     | 27270910 |
| <b>ECI@ss 5.1.4</b>   | 27270910 |
| <b>ECI@ss 6.0</b>     | 27270910 |
| <b>ECI@ss 6.2</b>     | 27270910 |
| <b>ECI@ss 7.0</b>     | 27270910 |
| <b>ECI@ss 8.0</b>     | 27270910 |
| <b>ECI@ss 8.1</b>     | 27270910 |
| <b>ECI@ss 9.0</b>     | 27270910 |
| <b>ECI@ss 10.0</b>    | 27270910 |
| <b>ECI@ss 11.0</b>    | 27270910 |
| <b>ETIM 5.0</b>       | EC002549 |
| <b>ETIM 6.0</b>       | EC002549 |
| <b>ETIM 7.0</b>       | EC002549 |
| <b>UNSPSC 16.0901</b> | 39121528 |

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



- ① Center of optical axis, sender
- ② Center of optical axis, receiver
- ③ Threaded mounting hole M3
- ④ LED indicator green
- ⑤ LED indicator yellow

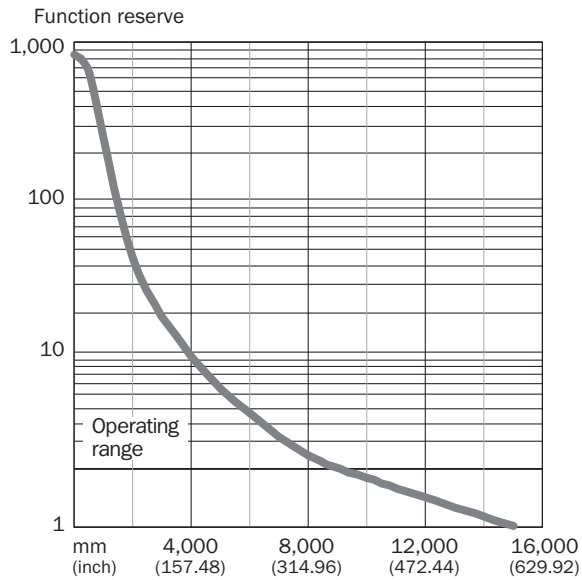
## Connection type and diagram



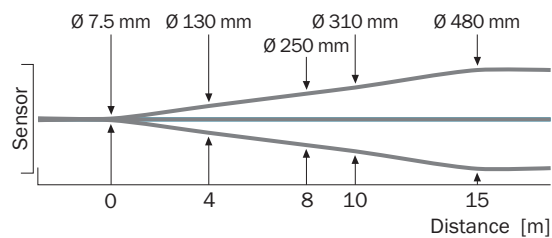
- ① Male connector M8, 4-pin  
② Cable with receptacle M8, 4-pin

## Sensing distance

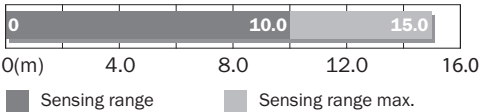
With GE6-P1111, GE6-N1111, GE6-P1111S63



## Light spot size



Sensing range diagram



Recommended accessories

Mounting systems

Mounting brackets and plates

Mounting brackets

Other models and accessories → [www.sick.com/FlexChain](http://www.sick.com/FlexChain)

| Brief description        | Type      | Part no. |
|--------------------------|-----------|----------|
| Stainless steel (1.4301) | BEF-WN-G6 | 2062909  |

## 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)