

## Technical data sheet

### Illumination

Part no.: 50148131

IL SP 021/014 300

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For illustration purposes only



## Technical data

### Basic data

|              |                       |
|--------------|-----------------------|
| Type         | LED spotlight         |
| Suitable for | IVS 1000i & DCR 1000i |

### Functions

|           |                          |
|-----------|--------------------------|
| Functions | Integrated power control |
|           | Triggered operation      |

### Optical data

|                          |                                      |
|--------------------------|--------------------------------------|
| Light source             | LED, Red                             |
| Wavelength               | 634 nm                               |
| Transmitted-signal shape | Pulsed                               |
| LED group                | Exempt group (in acc. with EN 62471) |
| Opening angle, max.      | 14 °                                 |

### Electrical data

|                                    |                                                   |
|------------------------------------|---------------------------------------------------|
| <b>Performance data</b>            |                                                   |
| Supply voltage U <sub>B</sub>      | 18 ... 30 V, DC                                   |
| Power consumption, max.            | 3.4 W, at 24 V DC                                 |
| <b>Inputs</b>                      |                                                   |
| Number of digital switching inputs | 1 Piece(s)                                        |
| <b>Switching inputs</b>            |                                                   |
| Voltage type                       | DC                                                |
| Switching voltage                  | Trigger high 3,3 ... 30,0 V (high) / < 2,8V (low) |
| <b>Digital switching input 1</b>   |                                                   |
| Function                           | Trigger                                           |

### Connection

|                       |                      |
|-----------------------|----------------------|
| Number of connections | 1 Piece(s)           |
| <b>Connection 1</b>   |                      |
| Function              | Trigger              |
|                       | Voltage supply       |
| Type of connection    | Cable with connector |
| Thread size           | M12                  |
| Type                  | Male                 |
| Material              | Metal                |
| No. of pins           | 3 -pin               |
| Encoding              | A-coded              |

### Mechanical data

|                       |                              |
|-----------------------|------------------------------|
| Design                | Cubic                        |
| Dimension (W x H x L) | 30 mm x 32 mm x 60 mm        |
| Housing material      | Metal                        |
| Metal housing         | Aluminium, anodized          |
| Plastic housing       | PC                           |
| Lens cover material   | Plastic / PMMA               |
| Net weight            | 110 g                        |
| Housing color         | Black                        |
| Type of fastening     | Mounting thread              |
|                       | Via optional mounting device |

### Operation and display

|                 |            |
|-----------------|------------|
| Type of display | LED        |
| Number of LEDs  | 1 Piece(s) |

### Environmental data

|                                    |               |
|------------------------------------|---------------|
| Ambient temperature, operation     | 0 ... 40 °C   |
| Ambient temperature, storage       | -20 ... 40 °C |
| Relative humidity (non-condensing) | 90 %          |

### Certifications

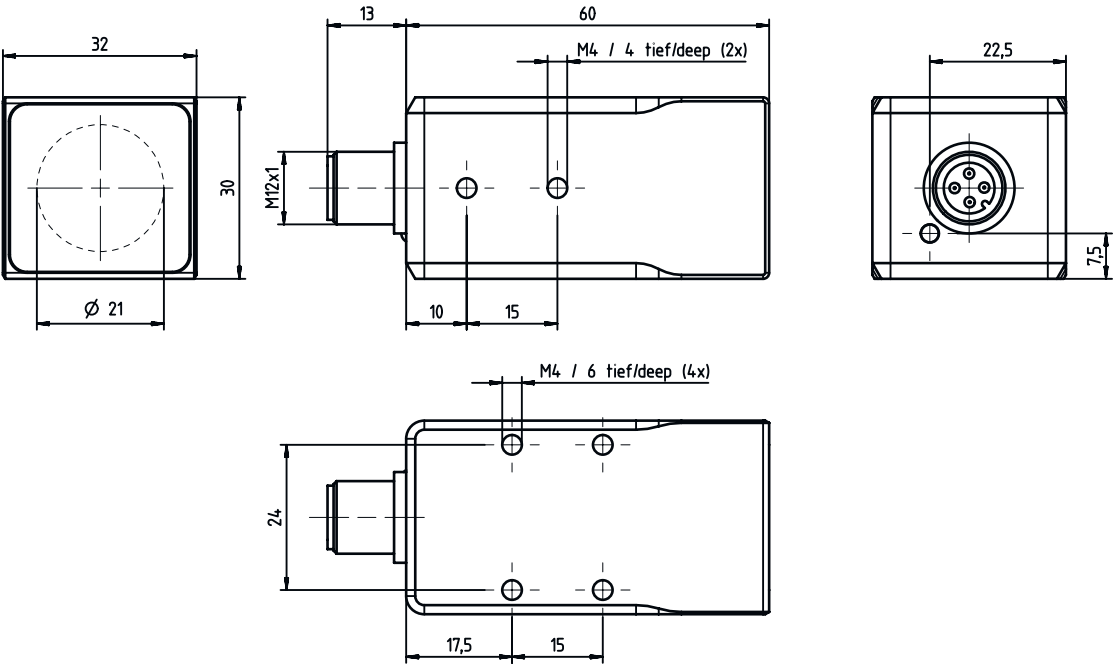
|                                                                 |                         |
|-----------------------------------------------------------------|-------------------------|
| Degree of protection                                            | IP 67                   |
| Protection class                                                | III                     |
| Approvals                                                       | c UL US                 |
| Test procedure for continuous shock in accordance with standard | IEC 60068-2-29, test Eb |
| Test procedure for vibration in accordance with standard        | IEC 60068-2-6, test Fc  |

### Classification

|                       |          |
|-----------------------|----------|
| Customs tariff number | 85395100 |
| ECLASS 5.1.4          | 27310204 |
| ECLASS 8.0            | 27310204 |
| ECLASS 9.0            | 27310204 |
| ECLASS 10.0           | 27310204 |
| ECLASS 11.0           | 27310204 |
| ECLASS 12.0           | 27310204 |
| ECLASS 13.0           | 27310204 |
| ECLASS 14.0           | 27310204 |
| ECLASS 15.0           | 27310204 |
| ETIM 5.0              | EC002498 |
| ETIM 6.0              | EC003015 |
| ETIM 7.0              | EC003015 |
| ETIM 8.0              | EC003015 |
| ETIM 9.0              | EC003015 |
| ETIM 10.0             | EC003015 |

Dimensioned drawings

All dimensions in millimeters

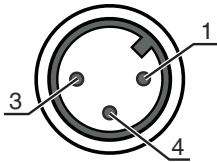


Electrical connection

Connection 1

|                    |                      |
|--------------------|----------------------|
| Function           | Trigger              |
| Type of connection | Voltage supply       |
| Cable length       | Cable with connector |
| Thread size        | 300 mm               |
| Type               | M12                  |
| Material           | Male                 |
| No. of pins        | Metal                |
| Encoding           | 3 -pin               |
|                    | A-coded              |

| Pin | Pin assignment |
|-----|----------------|
| 1   | V+             |
| 3   | GND            |
| 4   | Trigger IN     |



Operation and display

| LED | Display                 | Meaning |
|-----|-------------------------|---------|
| 1   | Green, continuous light | Ready   |

## Notes

**Observe intended use!**

- ⚠ This product is not a safety sensor and is not intended as personnel protection.
- ⚠ The product may only be put into operation by competent persons.
- ⚠ Only use the product in accordance with its intended use.

## Accessories

## Connection technology - Connection cables

|  | Part no. | Designation        | Article          | Description                                                                                                                                                               |
|--|----------|--------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 50130638 | KD U-M12-3A-V1-050 | Connection cable | Connection 1: Connector, M12, Axial, Female, 3 -pin<br>Connector, LED: No<br>Connection 2: Open end<br>Shielded: No<br>Cable length: 5.000 mm<br>Sheathing material: PVC  |
|  | 50130679 | KD U-M12-3W-V1-050 | Connection cable | Connection 1: Connector, M12, Angled, Female, 3 -pin<br>Connector, LED: No<br>Connection 2: Open end<br>Shielded: No<br>Cable length: 5.000 mm<br>Sheathing material: PVC |

## Mounting technology - Swivel mounts

|  | Part no. | Designation   | Article         | Description                                                                                           |
|--|----------|---------------|-----------------|-------------------------------------------------------------------------------------------------------|
|  | 50148132 | BTK IL SP 021 | Mounting device | Fastening, at system: Screw type<br>Mounting bracket, at device: Spherical head<br>Material: Aluminum |

## Note



- ⚠ A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.