SICK.COM



DATA SHEET

# BAS3501-E

Backup Assistance System
Object detection systems

SICK Sensor Intelligence



## OBJECT DETECTION SYSTEMS

# BAS3501-E

### ORDERING INFORMATION

| Type | part no. |
|---|---|
| BAS3501-E | 1117895 |

Further device versions and accessories at www.sick.com/Backup_Assistance_System

## DETAILED TECHNICAL DATA

### FEATURES

| | |
|---|---|
| Areas of application | Indoor and outdoor areas (8 m) |
| Number of laserscanners | 1 |
| Vehicles | Electric forklifts |

### MECHANICS/ELECTRONICS

| | |
|---|---|
| Weight | 1,530 g, without connecting cables |
| Power consumption | 10 W (≤ 13 W) |
| Machine reverse signal voltage | 24 V ... 72 V |
| Machine operating voltage | 24 V ... 72 V |
| Enclosure rating | IP65 / IP67 |
| Laser class | 1 (IEC 60825-1:2014, EN 60825-1:2014+A11:2021) |

### PERFORMANCE

| | |
|---|---|
| Functions | Visual and acoustic collision warning |
| Monitored area | Vehicle rear end |
| Warning zones | 2 |

### INTERFACES

| | | |
|---|---|---|
| USB | | ✓, micro USB |
| | Function | Parameterization |
| Digital | | |
| | Type | Binary |
| | Function | Machine reverse |
| HMI | | |
| | Function | For signal light bar<br>For visual and acoustic warning |

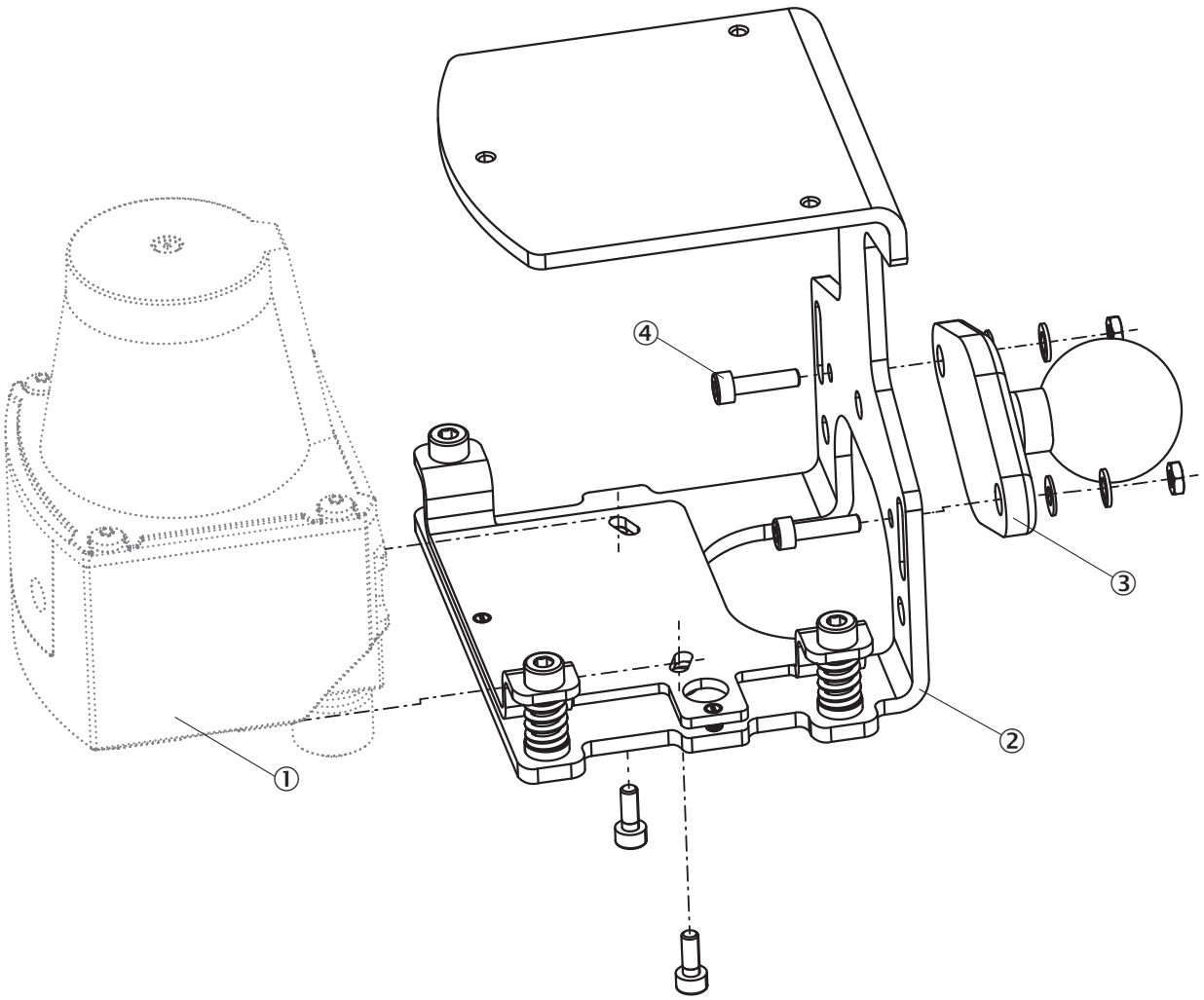
## AMBIENT DATA

| | |
|---|---|
| Ambient operating temperature | –20 °C ... +50 °C |
| Ambient temperature, storage | –25 °C ... +55 °C |

## CERTIFICATES

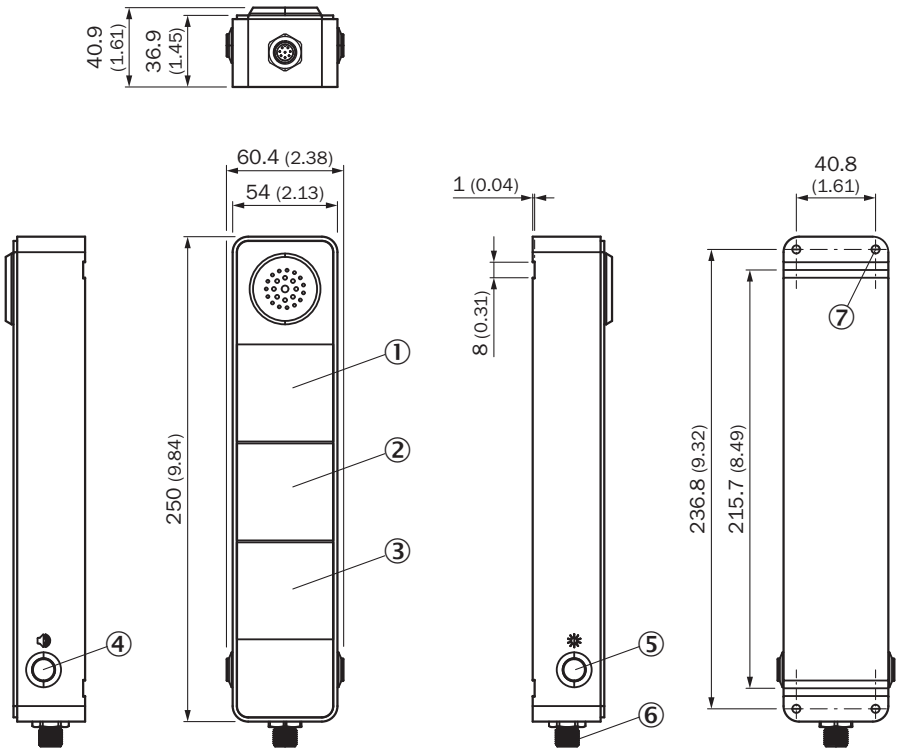
| | |
|---|---|
| EU declaration of conformity | ✓ |
| UK declaration of conformity | ✓ |
| ACMA declaration of conformity | ✓ |
| China RoHS | ✓ |
| cULus certificate | ✓ |

## DIMENSIONAL DRAWING MOUNTING KIT NOTES



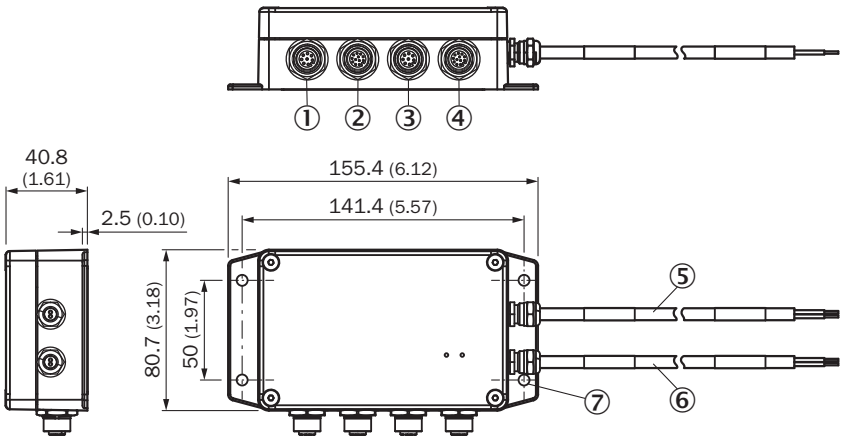

Dimensions in mm (inch)
① TiM3xx 2D LiDAR sensor (included with delivery)
② TiM3xx mounting kit, part no. 2061776 (included with delivery)
③ RAM mount bracket, part no. 5333533 (included with delivery)
④ 2x screws each, nuts, washers (included with delivery)

**DIMENSIONAL DRAWING SIGNAL LIGHT BAR WITH BUZZER**




Dimensions in mm (inch)
① Red LED segment (visual signal display)
② Yellow LED segment
③ Green LED segment
④ Function button for volume control
⑤ Function button for light intensity levels
⑥ “Power & I/O signal” connection, 8-pin, M12 male connector
⑦ 4 x mounting holes, M5

**DIMENSIONAL DRAWING BAS CONTROL UNIT**




Dimensions in mm (inch)
① signal light bar 1 connection, 8-pin M12 male connector
② sensor 1 connection, 12-pin M12 male connector
③ signal light bar 2 connection, 8-pin M12 male connector
④ sensor 2 connection, 12-pin M12 male connector
⑤ “voltage supply” connection, 2-pin cable with open ends
⑥ “Reverse from vehicle” connection, 2-pin cable with open ends
⑦ Mounting plate with 4x holes, M5

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1117895

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WALDKIRCH
GERMANY
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# SICK AT A GLANCE

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SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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