

BAS3501-E

Backup Assistance System

OBJECT DETECTION SYSTEMS





Ordering information

Туре	part no.
BAS3501-E	1117895

Included in delivery: DSL-1212-G05MAS02 (1), Mounting kit (1), Sensor mount (1" Ball) (1), Signal Light bar (1), TIM351-2134001 (1), YF2A28-050UA6M2A28 (1), 6" socket arm (1" Ball) (1), BAS3500-E Control unit (1), YF2A2B-050VH2M2A2B (1)

Other models and accessories \rightarrow www.sick.com/Backup_Assistance_System



Detailed technical data

Features

Areas of application	Indoor and outdoor areas (8 m)
Number of sensors	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 36 V 48 V 60 V 72 V
Machine operating voltage	24 V 36 V 48 V 60 V 72 V
Enclosure rating	IP65 / IP67
Laser class	1 (IEC 60825-1:2014, EN 60825-1:2014)

Performance

Functions	Visual and acoustic collision warning
Number of laserscanners	1
Monitored area	Vehicle rear end
Warning zones	2
GPS	-
WebInterface	-

Interfaces

	✓ , micro USB
	Parameterization
	Machine reverse

нмі	√ , For signal light bar
Function	For visual and acoustic warning

Ambient data

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

General notes

Items supplied	2D LiDAR sensor TiM351 Control module assembly with power and reverse cable, 3m Signal light bar with tri-color visual and configurable audible alarm levels up to 98 dB Mounting kit for sensor and light stack
	Connection cables for sensor and light stack, 5m

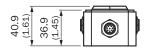
Certificates

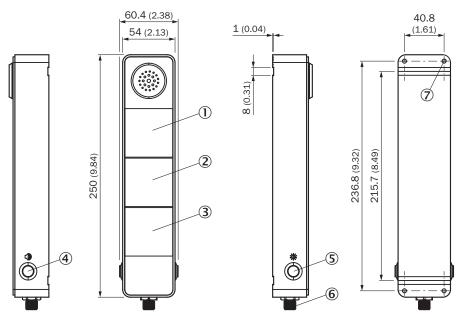
EU declaration of conformity	1
UK declaration of conformity	1
ACMA declaration of conformity	1
China RoHS	1
cULus certificate	1

Classifications

ECLASS 5.0	27339090
ECLASS 5.1.4	27339090
ECLASS 6.0	27339090
ECLASS 6.2	27339090
ECLASS 7.0	27339090
ECLASS 8.0	27339090
ECLASS 8.1	27339090
ECLASS 9.0	27330190
ECLASS 10.0	27330190
ECLASS 11.0	27330190
UNSPSC 16.0901	25172105

Dimensional drawing Signal light bar with buzzer

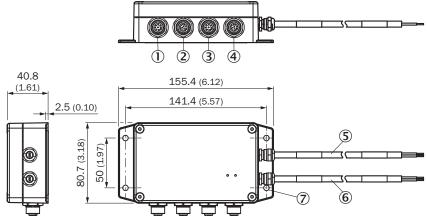




Dimensions in mm (inch)

- 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

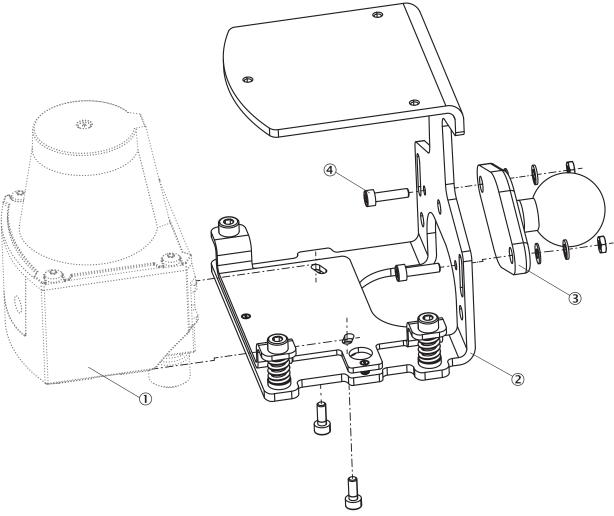


Dimensions in mm (inch)

- 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

Dimensional drawing Mounting kit notes



Dimensions in mm (inch)

- ① TiM3xx 2D LiDAR sensor (included with delivery)
- ③ RAM mount bracket, part no. 5333533 (included with delivery)
- ② 2x screws each, nuts, washers (included with delivery)

Recommended accessories

Other models and accessories → www.sick.com/Backup_Assistance_System

	Brief description	Туре	part no.
Mounting systems			
000	Description: 4" post clamp, 3" bolt (1" Ball) to connect socket arm and overhead guard	4" post clamp, 3" bolt (1" Ball)	5333539
	Description: 3" post clamp, 3" bolt (1" Ball) to connect socket arm and overhead guard	3" post clamp, 3" bolt (1" Ball)	5333540
000	Description: 2.5" post clamp, 3" bolt (1" Ball) to connect socket arm and overhead guard	2.5" post clamp, 3" bolt (1" Ball)	5333541
600	Description: 2" post clamp, 3" bolt (1" Ball) to connect socket arm and overhead guard	2" post clamp, 3" bolt (1" Ball)	5333542
	Description: 1/2" to 2" circular post clamp to connect socket arm and overhead guard	1/2" to 2" circu- lar post clamp	5333545
connectors and cables			
1	 Connection type head A: Male connector, Micro-B, 4-pin, straight Connection type head B: Male connector, USB-A, 4-pin, straight Signal type: USB 2.0 Cable: 2 m, 4-wire Description: USB 2.0, unshielded 	USB cable	6036106

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