



BAS

Active collision warning for manned forklift trucks

DRIVER ASSISTANCE SYSTEMS

SICK
Sensor Intelligence.



Technical data overview

Display	-
Monitored area	Vehicle rear end
Warning zones	2
Areas of application	Inside (2 m), Inside and outside (8 m) (depending on type)
Ambient temperature, operation	-10 °C ... +50 °C
Integrated application	Collision awareness for manned forklifts and other industrial vehicles
Functions	Visual and acoustic collision warning

Product description

The Backup Assistance System (BAS) minimizes the risk of collisions for manned forklift trucks. It monitors areas of the vehicle which are obstructed from view of the driver. The BAS gives real-time feedback via visual and audible warnings when the forklift truck comes near a stationary or moving object. The compact system is based on a TiM3xx 2D LiDAR sensor that is engaged only when the forklift truck is in reverse, thereby eliminating false alarms when moving forward. The monitored area can be scaled up by adding an additional sensor.

At a glance

- System is activated when reverse is engaged
- Three-stage warning concept with tri-color visual and configurable audible levels up to 98 dB
- Two customizable alert zones per sensor
- Monitored areas scalable with a second TiM3xx LiDAR sensor
- Control unit provides the necessary logic for the sensors and regulates its voltage supply

Your benefits

- Supports the driver when reversing while not distracting the driver when moving forward
- Actively warns the driver with visual and audible warning signals
- Detects stationary and moving objects – no additional costly equipment required
- Compact standalone system for easy integration and mounting
- Cost-efficient solution for retrofitting on a large fleet of vehicles regardless of its voltage
- Low power consumption minimizes the drain on the vehicle battery

Fields of application

- Prevents accidents
- Interruption free intralogistic processes
- Supports the driver

Ordering information

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

- **Vehicle:** Manned forklift trucks
- **Monitored area:** vehicle rear end
- **Number of sensors:** 1

Machine reverse signal voltage	Machine operating voltage	Type	Part no.
12 V DC	-	BAS320-11000	1073075
		BAS320-31000	1073864
12 V	24 V	BAS320E-31000	1082441
	36 V		
	48 V		
	60 V		
	72 V		

Machine reverse signal voltage	Machine operating voltage	Type	Part no.
12 V DC	-	BAS351-11000	1073133
		BAS351-31000	1073865
12 V	24 V 36 V 48 V 60 V 72 V	BAS351E-31000	1082448
		BAS320E-11000	1082440
	12 V	BAS351E-11000	1082447
24 V DC	-	BAS320-32000	1073076
		BAS351-32000	1073134
24 V	24 V	BAS320E-32000	1082442
		BAS351E-32000	1082449
48 V DC	-	BAS320-34000	1073052
		BAS351-34000	1073135
48 V	48 V	BAS320E-34000	1082443
		BAS351E-34000	1082450
60 V DC	-	BAS320-36000	1073077
		BAS351-36000	1073136
60 V	60 V	BAS320E-36000	1082444
		BAS351E-36000	1082451
72 V DC	-	BAS320-37000	1073078
		BAS351-37000	1073137
72 V	72 V	BAS320E-37000	1082445
		BAS351E-37000	1082452

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