



BAS

ACTIVE COLLISION WARNING ALERTS FOR MANNED FORKLIFT TRUCK APPLICATIONS

Driver Assistance Systems

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Sensor Intelligence.

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BACKUP ASSISTANCE SYSTEM

MINIMIZE COSTLY COLLISIONS

SICK Sensor Solutions for Manned Forklifts

COLLISION ALERTS FOR FORKLIFT APPLICATIONS

Actively monitor the obstructed view area behind a forklift and minimize collisions. Using our compact, advanced laser measurement scanner, this stand-alone backup assistance system gives real-time feedback to the driver via an audible warning(s) only when the truck is too close to any stationary or moving object. This intelligent system was designed specifically for forklifts and the system can be connected to the reverse drive function of the vehical to eliminate false alarms. Visual warning lights are optional.



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Backup Assistance System MINIMIZE COSTLY COLLISIONS

System Features & Benefits

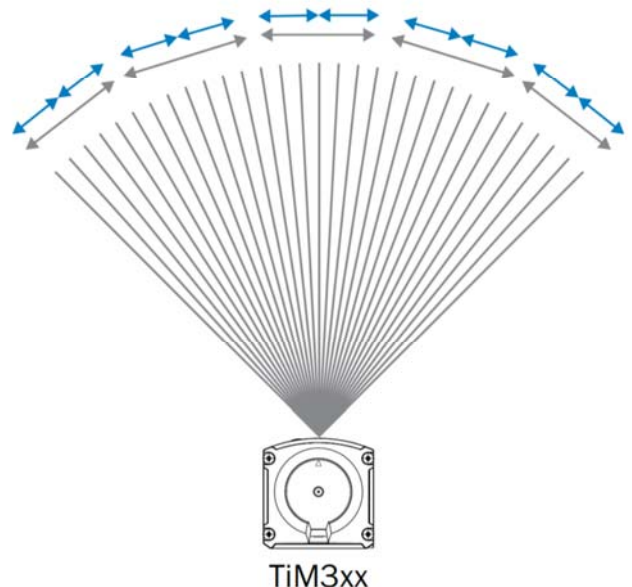
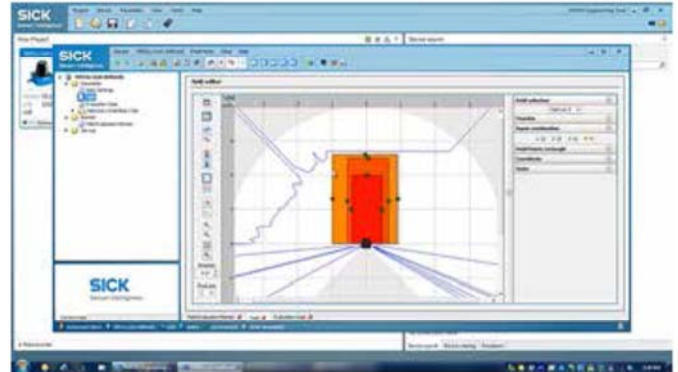
- No constant buzzing or flashing lights eliminates operator fatigue
- Stand-alone, aftermarket solution that actively alerts the operator to unseen obstructions behind the forklift, which contributes to a reduction in accidents
- Simple, independent solution that does not require additional equipment on potential obstacles for detection of stationary or moving obstacles, e.g., personnel, product, walls
- Low power consumption of 3 W minimizes drain on vehicle battery
- Wide operating temperature range from -10°C to $+50^{\circ}\text{C}$ for cold storage and other environments
- Lack of lift truck control system override means operators can still use the full capability of the lift truck
- Alarms are engaged when vehicle is traveling in one direction

Kit Includes

- Eye-safe class 1 TiM3xx laser measurement scanner with adjustable detection range (on dark objects) and up to 270° field-of-view
- Cable and mounting bracket for simple mounting and adjustment
- 95 dB buzzer with two audible tones and cable
- DIN rail assembly with DC/DC converter, multiple relays and terminal strips
- Kits available for different voltage trucks and electrical systems
- Optional visual warning indicators

Sensor Intelligence Features & Benefits

- Two customizable warning areas allow for a tailored fit instead of a one-size-fits-all solution
- High Definition Distance Measurement (HDDM) ensures reliable object detection
- Built-in, advanced 15,000 lux immunity and customizable warning areas reduce nuisance trips from ambient light, reflective vests, sunlight, etc.
- Integrated evaluation gives a simple output when objects appear in warning area(s)



TiM3xx

ACTIVE COLLISION WARNING ALERTS FOR MANNED FORKLIFT TRUCK APPLICATIONS



Product description

The BAS (Backup Assistance System) driver assistance system actively monitors the area obstructed from view behind a manned forklift truck and minimizes collisions. Using the compact, advanced TiM3xx laser scanner, this stand-alone backup assistance system gives real-time feedback to the driver

via an audible warning(s) only when the truck is too close to any stationary or moving object. This intelligent system was designed specifically for forklift trucks and the system can be connected to the reverse drive function of the vehicle to eliminate false alarms. Visual warning lights are optional.

At a glance

- Customizable alert zones allowed for a tailored solution
- Low power consumption minimizes drain on vehicle battery
- 95 dB buzzer with two audible tones
- Alarms are activated when vehicle is traveling in reverse
- Kits available for different voltage trucks and electrical systems

Your benefits

- Eliminating the need for constant alerts or flashing lights helps reduce operator fatigue
- Stand-alone, aftermarket solution that actively alerts the operator to unseen obstructions behind the forklift truck, which contributes to a reduction in costly accidents
- Operator remains in full control of the lift truck, this stand-alone system acts as an aid and does not override the lift truck control system
- Simple, independent solution that does not require additional costly equipment or integration of components on potential obstacles
- Keep Operator focused on current task while reducing accidents and damage



Ordering Information

- **Integrated application:** collision awareness for manned forklifts and other industrial vehicles

Items supplied	Field of application	Supply voltage	Reversing signal	Type	Part no.
2D LiDAR sensor TiM320 Rear DIN Assembly with cables Mounting kit for TiM3xx Buzzer	Inside (2 m)	12 V DC	12 V DC	BAS320-11000	1073075
		24 V DC	12 V DC	BAS320-31000	1073864
			24 V DC	BAS320-32000	1073076
		48 V DC	48 V DC	BAS320-34000	1073052
		60 V DC	60 V DC	BAS320-36000	1073077
		72 V DC	72 V DC	BAS320-37000	1073078
2D LiDAR sensor TiM351 Rear DIN Assembly with cables Mounting kit for TiM3xx Buzzer	Inside and outside (8 m)	80 V DC	80 V DC	BAS320-58000	1073326
		12 V DC	12 V DC	BAS351-11000	1073133
			12 V DC	BAS351-31000	1073865
		24 V DC	24 V DC	BAS351-32000	1073134
			24 V DC	BAS351-34000	1073135
		48 V DC	48 V DC	BAS351-36000	1073136
60 V DC	60 V DC	BAS351-37000	1073137		
72 V DC	72 V DC	BAS351-58000	1073327		
80 V DC	80 V DC				

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