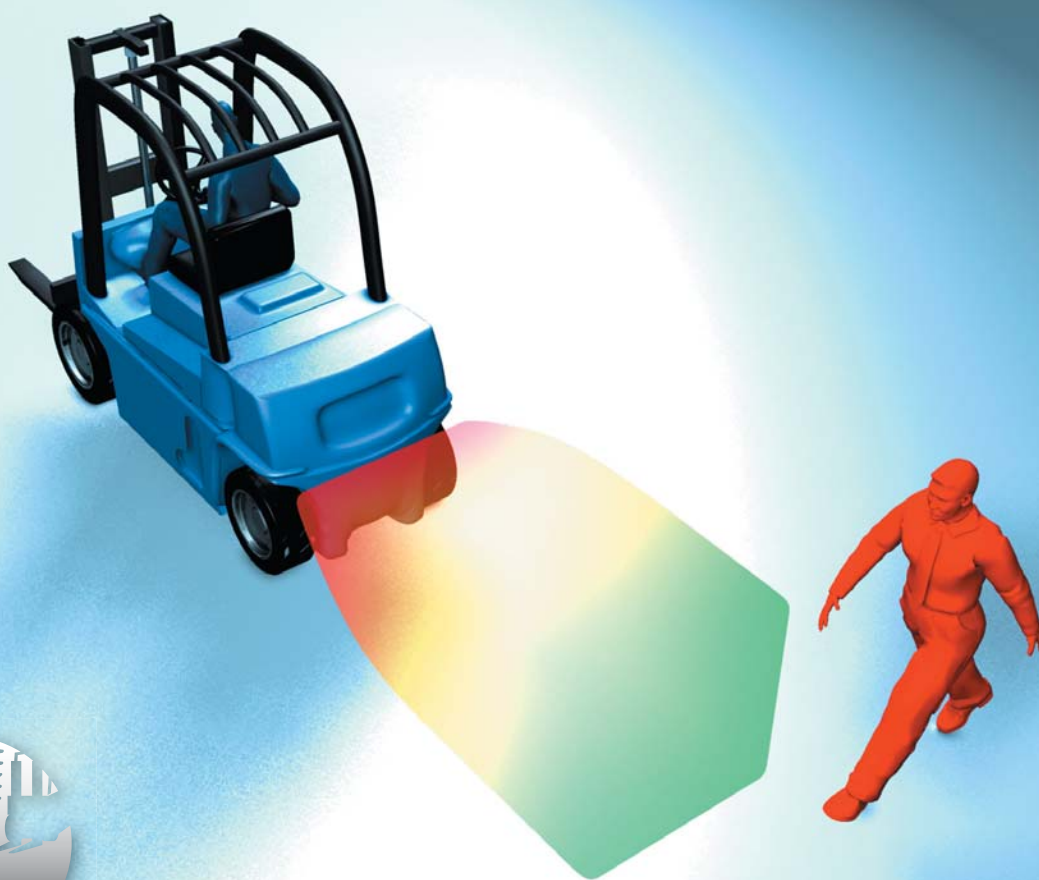
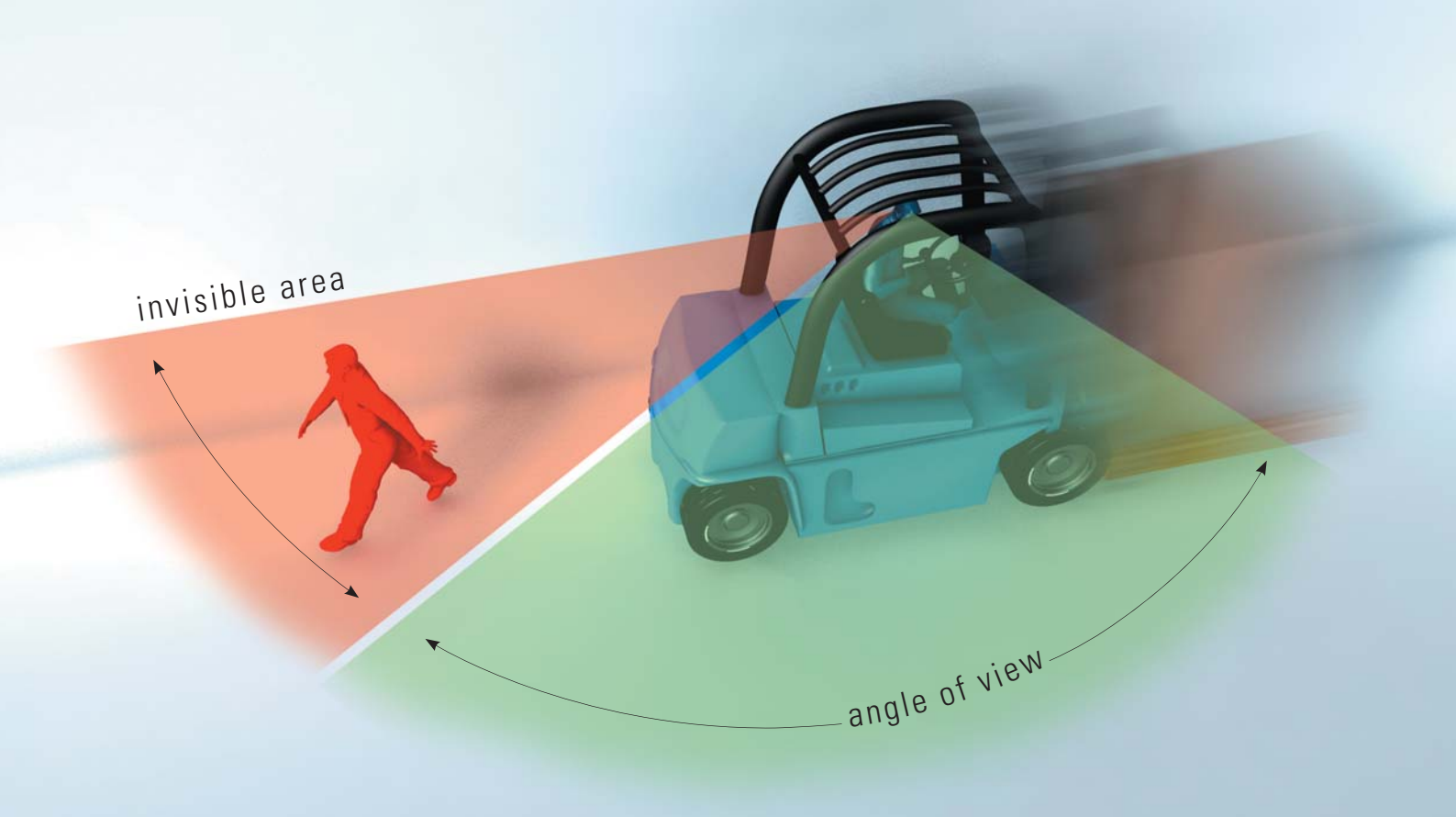


Reverse area warning system RRW-107plus



Safety at work



Reverse area warning system

RRW-107plus



Advantages:

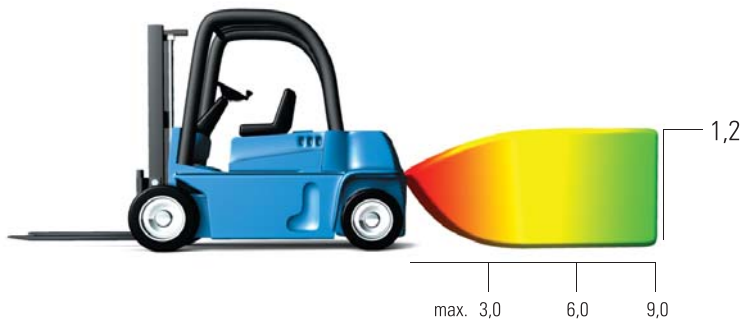
- Driver assistance
- Active collision warning
- Three zone surveillance (adjustable)
- High definition
- Automatic speed reduction

System description

The reverse area warning system RRW-107plus is suitable for all free driving electric, diesel and gas forklifts to avoid accidents when reversing. It is based on ultra-sonic technology, is Canbus controlled and every time it is switched on (reversing movement), carries out a self-test.



Safety at work



Models available

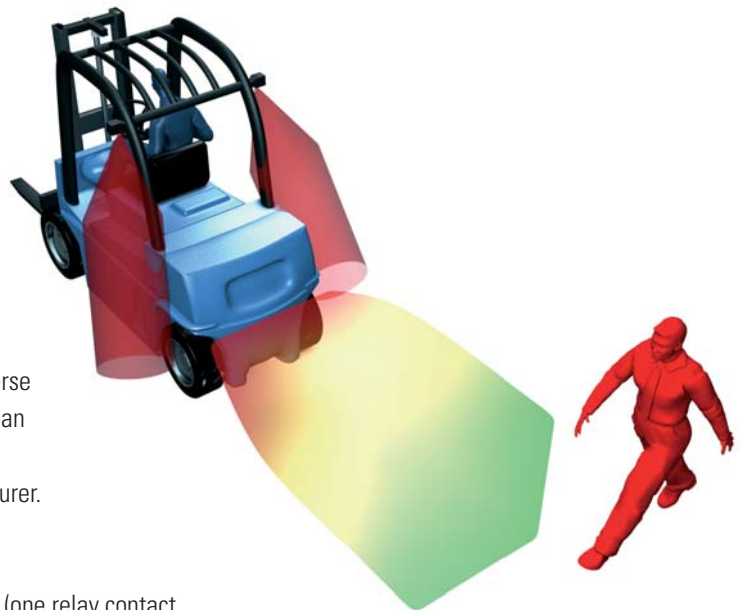
Standard version

The reverse area warning system RRW-107plus is an assist system for the driver and should the occasion arise, for the surrounding area. The driver receives an accoustic and optical warning signal which changes dependent on the distance of the recognised object. This means the driver can react and can brake accordingly.

V2 version

In so much as possible on the vehicle, the alarm signals are integrated into the motor management. In this respect, the reverse warning unit is not only an active warning but also leads on to an automatic speed reduction (V2).

Vehicle integration must be carried out by the vehicle manufacturer.



Premium version

With this version up to three switch signals are made available (one relay contact per surveillance zone). In this way, dependent on the detection distance up to three different functions can be switched in such as:

Zone 1 (distant): Active warning

Zone 2 (medium): V2 speed reduction e.g. to 4.0 km/h

Zone 3 (near): V3 speed reduction e.g. to 0.5 km/h



Additions (optional)

- ❖ **Manoeuvring switch:** in tight areas the driver can operate a manoeuvring switch to override for a limited time the optical/ accoustic alarm (or the speed reduction applicable). This enables alarm-free operation when independent manoeuvring has been consciously selected.
- ❖ **Smart alarm:** The smart alarm is an additional horn which warns the surrounding area when an object is in the area under surveillance. The volume of the smart alarm is adjusted to match surrounding area noise.
- ❖ **Two additional small** sensors for additional monitoring of rear side of vehicle (for protection sideways of battery).

Technical Data

Dimensions (length x width x height)	
Control unit:	213 x 125 x 35 mm
Ultrasonic unit below:	124 x 86 x 68 mm
Ultrasonic unit on side:	119 x 61 x 52 mm
Transmitter:	32 x 29 x 116 mm
Housing material:	Control unit: aluminium Ultrasonic unit: neoprene Transmitter: plastic
Rated voltage:	+ 12 ... 24 V DC optional: DC/DC- or AC/DC converter
Output:	max. 1,0 A
Surveillance zones:	
Zone length programmable:	Zone 1: 0,90 - 9,00 mtr Zone 2: 0,60 - 6,00 mtr Zone 3: 0,30 - 3,00 mtr
Zone width:	Spacing of ultrasound units: 0,9 - 3,0 mtr Standard width: 0,9 mtr
Zone height:	1,4 mtr
Operating temperature:	-25°C - +60°C
Relative humidity:	5 - 95 %
Protection type:	Control unit: IP 69, Ultrasonic unit: IP 67, Transmitter: IP 32
Vehicle requirements:	Reversing signal +12 or +24 V DC
Optional equipment:	Smart alarm signal Camera system CCD-107
Norms:	DIN 75031: Manoeuvring warning units EMC Guideline 2004/104/E
Fitting:	Fitting of components and programming of the surveillance areas and commissioning is carried out on an individual basis by trained, experienced and authorised tbm service technicians, dependent on vehicle type and kind of application.
Note:	Reverse area warning system RRW-107plus is maintenance-free. It is, however; recommended that a regular check should be carried out by a technician.