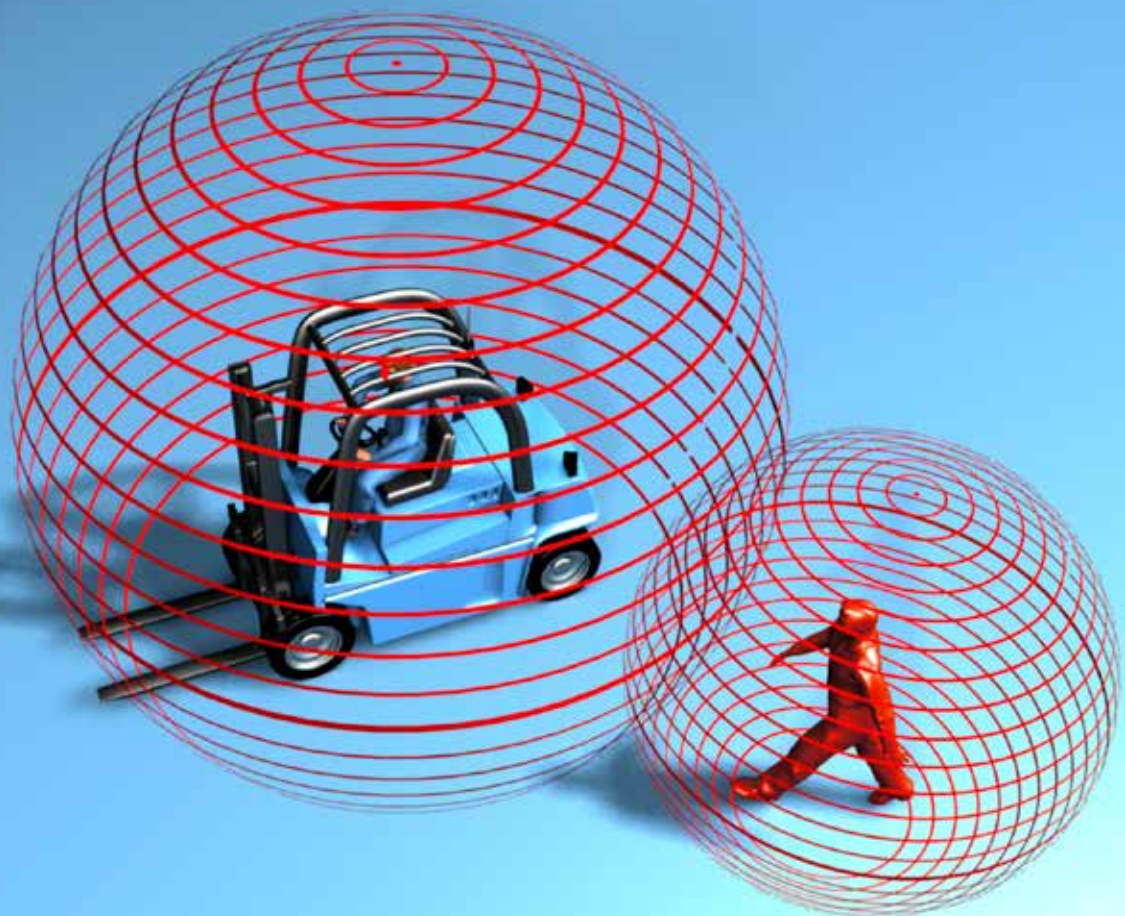


# 360° All-Round Protection

RFID-AURA-207

Multifunctional



Safety at Work

# All-round protection RFID-AURA-207

## RFID technology protects

With the RFID-AURA-207, a forklift truck has a 360° all-round protection field. It will detect pedestrians carrying an RFID-AURA transponder.

A forklift truck thus becomes a personnel detector and warns drivers visually and/or acoustically of any people present in the vicinity, or automatically reduces the speed at the same time.

The RFID-AURA-207 is the active radio-based driver assistance system that provides comprehensive protection in logistics.



## Characteristics

The RFID-AURA-207 detects an AURA transponder by means of an adjustable LF (low frequency) field. Within this field, the transponder sends its ID to the RFID-AURA and thus triggers the alarm signal.

With a range of 8 m (standard), the RFID-AURA-207 provides a comfortable protection zone. Larger ranges (15 m and more) can be implemented by using an alternative antenna (75 x 25 cm).

The RFID-AURA-207 detects an unlimited number of transponders automatically. Upgrades can be implemented unproblematically. If individual ID codes are stored in the RFID-AURA electronics, these will trigger an additional pre-defined function.

The RFID-AURA-207 will detect pedestrians even if they stand behind a pallet and can actually not be "seen".

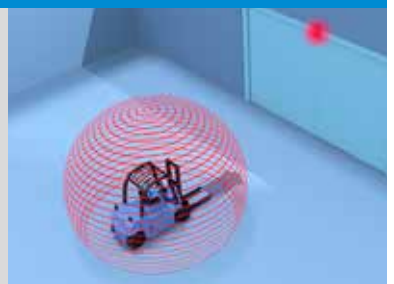
## Areas of use

### 360° personnel detection



- Reliable personnel detection
- Active warning for drivers

### Zone detection



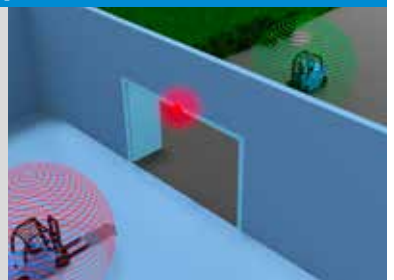
- Speed reduction
  - on certain traffic routes
  - in passageways

### Collision protection at gates



- Gate opening
- Active warning
- Speed reduction

### InDoor-/OutDoor speed



- Reduced in the indoor area
- Full speed in the outdoor area

## A variety of transponders– the plus for every customer

The active RFID transponders are operated by battery with a **service life of about 13 months** (for a typical use of approx. 50 encounters per day for 5 min. each over a 6-day week). No daily charging required.

Battery health can be read on the transponder – or on an additional battery tester.

### Pedestrian transponder

- Teardrop shape for convenient carrying on the keyring
- Permanent protection
- Bank card format with integrated pocket for company ID card



### Driver transponder

- Deactivated by a push of a button for forklift travel
- Automatically fully active as soon as the driver leaves his vehicle aura



### Transponder boot

- RFID-tag integrated on the boot
- Protects people and feet permanently
- Secured by the transponder with every step
- At all times and on all routes



All transponders are also available with direction detection. Alarm is only triggered when the person approaches the forklift truck. This increases the forklift truck performance and reduces the alarm time.

### Direction recognition



- The RFID aura detects whether a transponder is approaching or moving away from the vehicle.
- **Alarm** when person approaches the vehicle
- **No alarm**, if person moves away
- This reduces the alarm duration by 50 %

### Benefits

- Unlimited number of transponders
- No daily charging required
- 13 months service life
- Detection zone variably adjustable
- Permanent range optimization

**Effective and efficient protection: Eyes are always on the route – and not on the display!**

## Technical specifications

<b>LF technology</b>		
<b>Low-frequency magnetic field (LF – low frequency):</b>	125 kHz	
<b>Low-frequency range:</b>	Radius adjustable between 0.5...8.0 m by rotary encoder (depending on mounting position)	
<b>Type of communication:</b>	Unidirectional	
<b>Power supply</b>		
<b>Rated voltage:</b>	12-24 VDC, stabilised, floating	
<b>Rated output:</b>	12 W	
<b>Temperature range:</b>	-20 °C ... + 70 °C	
<b>Interfaces</b>		
<b>Outputs (relay):</b>	2 floating changeover contacts 4 floating normally open contacts max. load 24 V / 0.5 A	All contacts can also be operated invertedly
<b>Control (enclosure)</b>		
<b>Dimensions (W X H X D):</b>	161 mm x 161 mm x 80 mm	
<b>Enclosure:</b>	IP66 EN 60529	
<b>Colour:</b>	Light grey RAL 7035	
<b>Material:</b>	ABS	
<b>Antenna</b>		
<b>Dimensions (W X H X D):</b>	270 mm x 175 mm x 20 mm	
<b>Material:</b>	POM	
<b>Approval</b>		
<b>CE:</b>	EN 300 330 / EN 300 220 - 1 / EN 300 220 - 3 / EN 301 489 -1, -3	
<b>HF technology</b>		
<b>Radio frequency:</b>	868 MHz (license-free usable ISM band)	
<b>Radio range:</b>	up to 150 metres in an open environment	
<b>Communication:</b>	Bi-directional	

## tbm awards



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