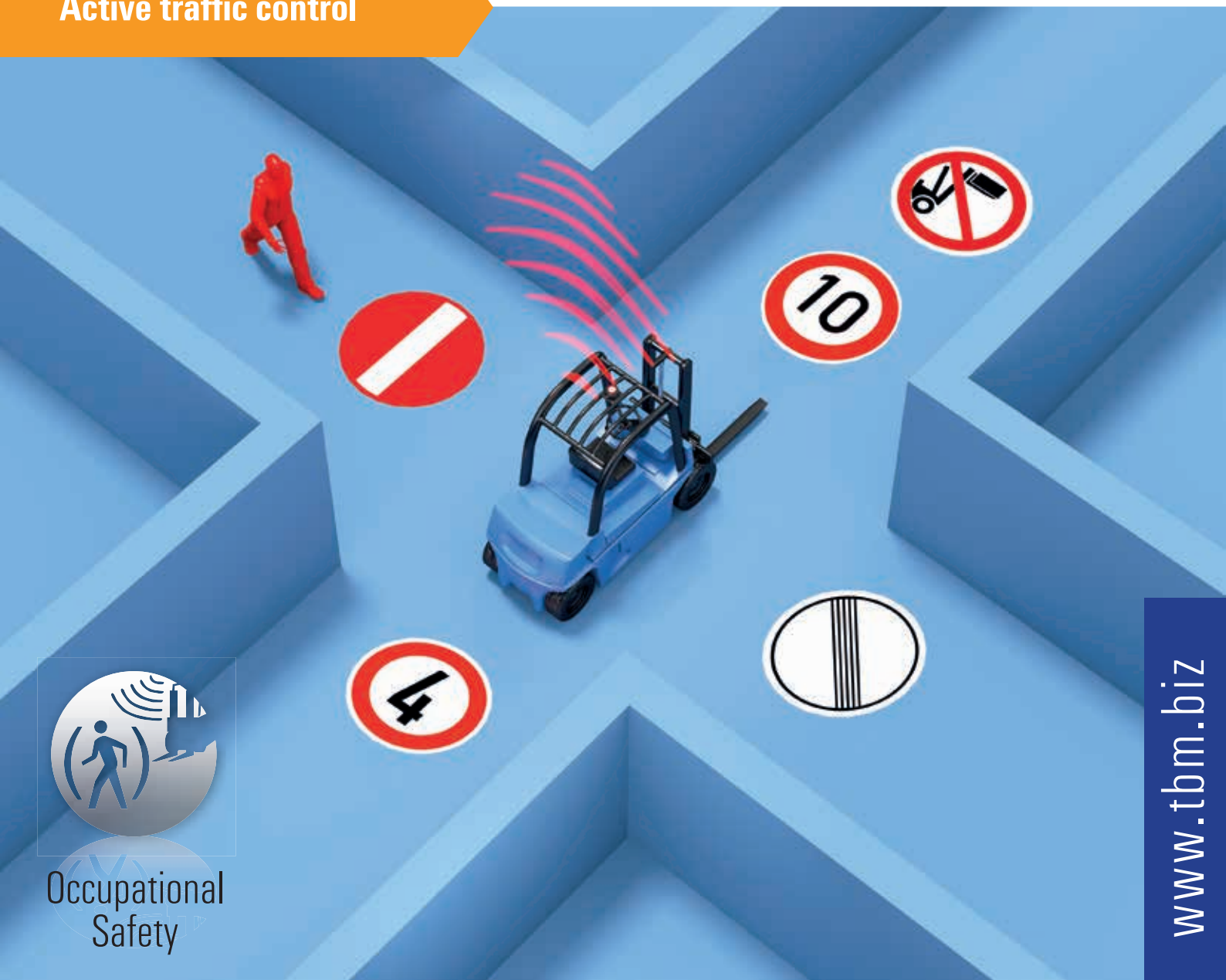
tbm hightech control

NoColl Collision Protection

NoColl Dome/v2

Active traffic control



Occupational Safety

www.tbm.biz

NoColl Dome/v2

The Intelligent Traffic Management System

With the NoColl Dome/v2 mounted on the industrial truck, accidents at traffic routes and in danger areas within the plant will be reduced. The system communicates based on encoded infrared light with NoColl sensors mounted to the structure and influences the vehicle functions (speed) in accordance with the specified traffic rules.

Bidirectional communication of the NoColl Dome/v2 even enables it to open gates or trigger visual and acoustic warnings at traffic junctions. This will also alert pedestrians present in the danger areas of approaching vehicles.

The NoColl Dome/v2 – for active safety at traffic routes:

- Controls the vehicle functions just like a remote control
- Supplements the vehicle intelligence
- Controls IR codes

Communication controls vehicle functions

The integrated software-controlled evaluation electronics turn the NoColl Dome/v2 into a multifunctionally usable driver assistance system.

Zone speed:

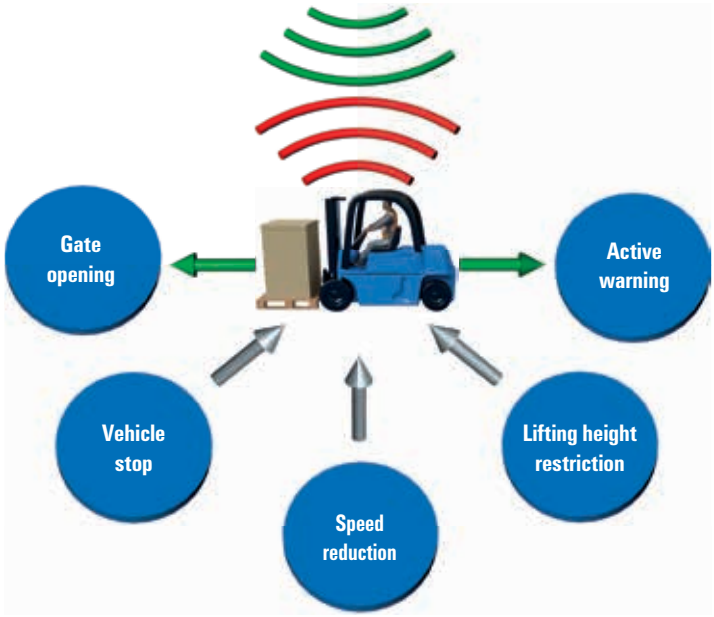
Speed reduction on traffic routes and route sections and at defined danger spots.

Zone guard

Speed restriction within defined warehouse/plant areas or indoor/ outdoor speed switching

Situation guard

Vehicle stop at passages if the vehicle mast is too high.



The NoColl Dome/v2 controls the vehicle functions from the driver's overhead guard. It indicates the status of the vehicle influencing by an illuminated ring that is visible from far. The integrated electronics are microprocessor controlled for redundant signal processing.

Important characteristics

Self-monitored

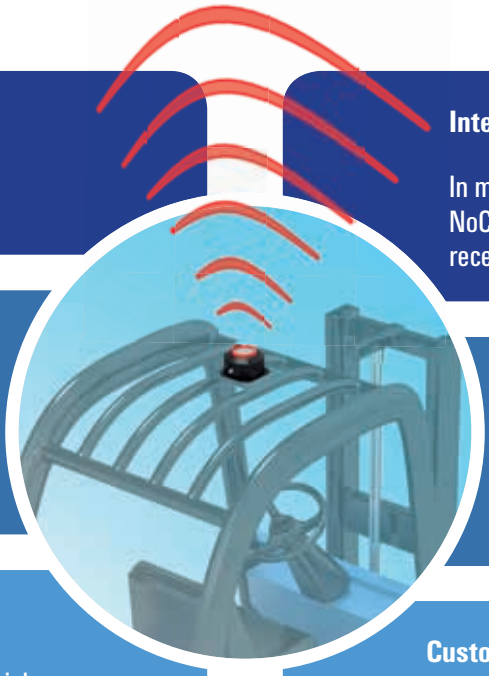
An unsurpassed safety level for driver assistance systems.

Integrated memory function

In many applications, it reduces the number of NoColl Dome/v2 necessary by saving the last received signal code.

Adjustable transmission range

The practical width scaling of the transmission lobe reduces costs and installation expenditure in difficult / unfavourable installation conditions.



Manufacturer independent

Can be used on all vehicle makes that permit suitable integration options.

Digital technology (embedded system)

Signals are processed by redundant 16-bit high-performance digital signal processors. This technology is also used for assistance systems in automotive engineering. It is maintenance friendly and operationally reliable.

Customized modifications

The software-controlled intelligence permits a solution even if for complex communications between vehicle and traffic route.

Most common areas of use

The NoColl Dome/v2 secures traffic routes and optimizes logistics by reducing accidents.

It is the smart driver assistance system for logistics management.

It has proved its high and reliable availability at numerous traffic junctions in logistics.

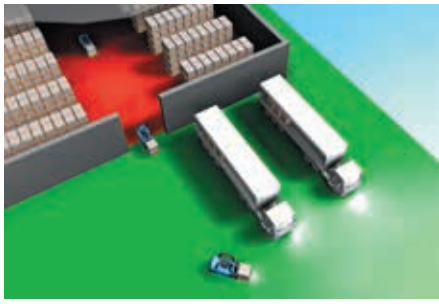
Benefits at a glance

- Easy installation
- Fast and reliable signal processing
- Plug & play solution
- Reliable vehicle influencing
- Safety on traffic routes
- Optimal cost effectiveness

On traffic routes

At passages

In indoor/outdoor areas



Technical specifications

NoColl Dome/v2	
Operating voltage:	24 VDC ± 10%
Operating current:	max. 0,1 A
Heater:	10 W temperature-controlled (adjustable)
Operating temperature:	-40°C ... +65°C
Measuring principle:	Infrared light
Infrared light:	880 nm, modulated
Range (indoor):	12 m ± 25%
Inputs:	4 inputs 10-28 VDC
Outputs:	4 inputs 24 VDC / 100mA
Switch outputs:	potential-free 2 relay switch outputs: 48 VDC / max. 0.5 A
Enclosure:	IP 66
MTTFd:	15 years (calculation based on SN29500 part 1 – 15. Calculation acc. to ISO 13849, Annex D.)
Housing:	Aluminium, black (RAL 9011), transparent dome made of PC
Dimensions:	(Ø x H) 154 x 128 mm
Type of assembly:	Screw assembly
Weight:	0,9 kg

tbm awards

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LOGISTRA best practice Innovationen 2014 Transportsicherheit tbm hightech control mit NoColl Kollisionsschutz-System

INNOVATIONSPREIS-IT BEST OF 2017 initiative mittelstand

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