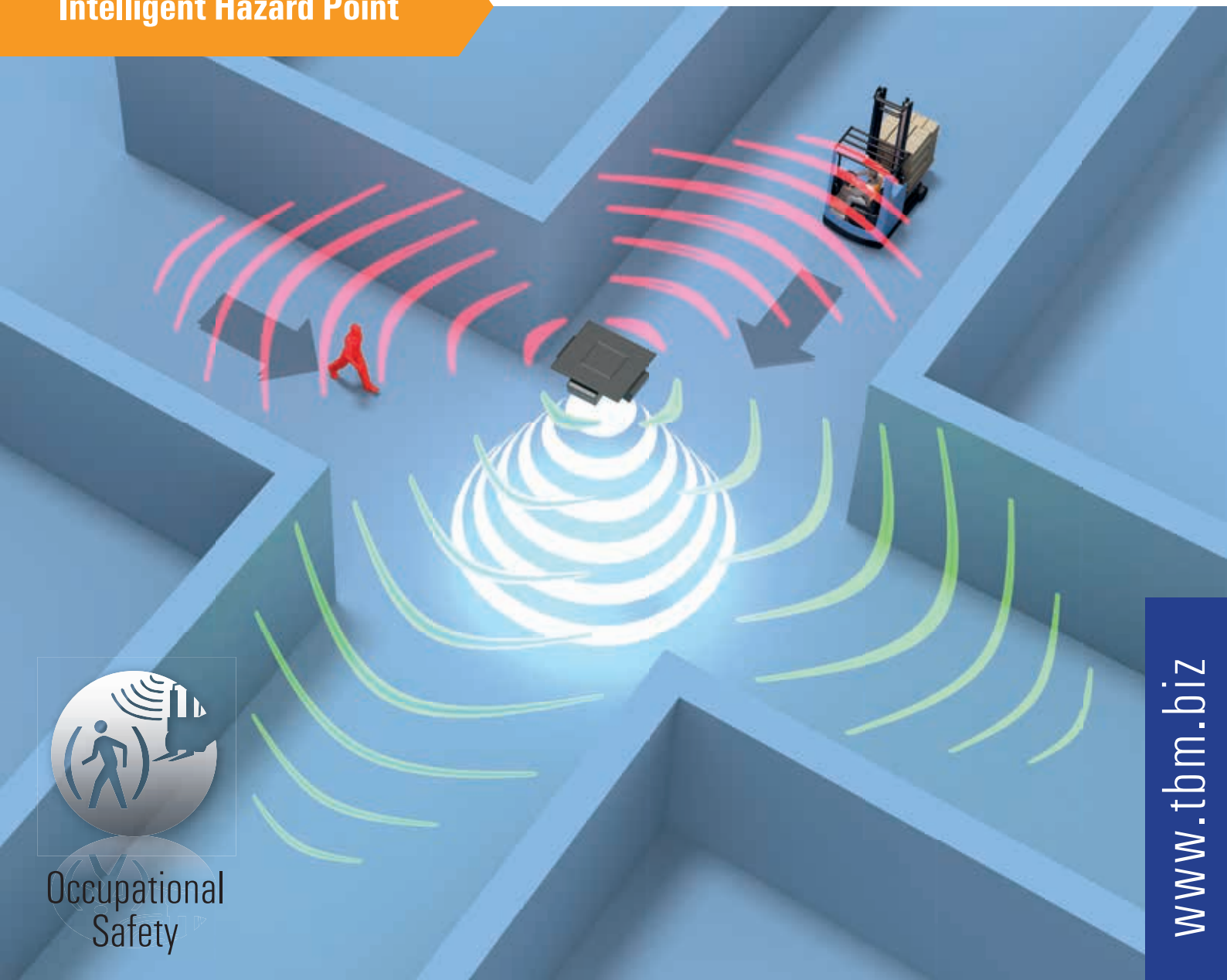


# Hazardous Situation Indicator

GSA-107

Intelligent Hazard Point



# Hazardous Situation Indicator GSA-107

## Intelligent solution for many hazard points

The Hazardous Situation Indicator GSA-107 is an innovative product family from tbn hightech control. It uses sensor control to detect individual hazard situations, to evaluate these extremely quickly, and to warn drivers and pedestrians effectively.

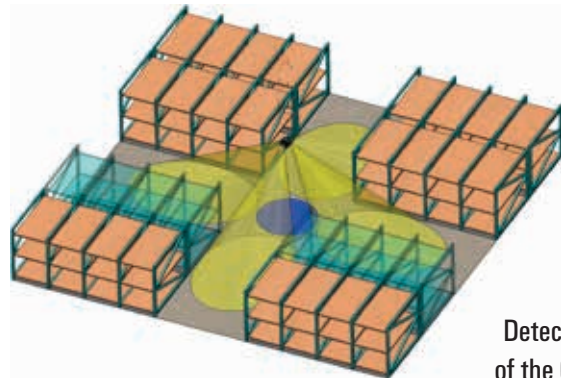
The active warning is only triggered when a hazardous situation is imminent, which makes it far more effective than a permanent marking of a hazard point. It generates significantly higher attention.

### Excellent characteristics

The Hazardous Situation Indicator GSA-107 uses sensor control and intelligent electronics to detect and distinguish pedestrians and vehicles. It identifies different hazard situations that are then classified according to different hazard levels by the integrated software. The highly noticeable visual warning is produced by a powerful Power LED Spot that, in the event of danger, will illuminate the area with a blue warning signal on the floor. Only stationary equipment – no equipment on vehicle or people.

### Important

The system is provided with an automatic direction detection in every direction that will signal an entering or approaching vehicle to a person on the system by a well visible red LED display (reaffirmation “I have been detected”).



Detection area of the GSA-107

## Hazardous Situation Indicator GSA-107KS (intersection safety system) standard

The Hazardous Situation Indicator GSA-107KS (intersection safety system / standard) has been designed for situations typically encountered at intersections. Four directions, four sensors, a control electronics unit and a powerful LED spot that, depending on the hazard situation, will produce a large blue light spot on the floor.

It is highly visible and noticeable so that even inattentive drivers and pedestrians will be warned efficiently.



## The warning signals / the standard functions



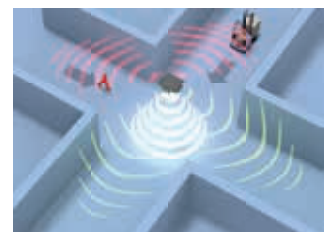
Pedestrian alone:  
No alarm is triggered



Vehicle alone:  
continuous light will be triggered



Two vehicles simultaneously:  
slow flashing will be triggered



Vehicle and pedestrian simultaneously:  
fast flashing will be triggered

## Hazardous Situation Indicator GSA-107KS (intersection safety system red/blue)

The Hazardous Situation Indicator GSA-107KS (intersection safety system red/blue) even enhances the effect. The blue Power LED Spot will mark hazard situations, while a highly noticeable red Power LED Spot will indicate extremely dangerous situations, e.g. imminent collision of a pedestrian and a vehicle.



## Hazardous Situation Indicator GSA-107KS (intersection safety system integrated in all-round mirror)



The use of all-round mirrors is standard at many companies to provide better view of passages that are difficult to manage. The Hazardous Situation Indicator GSA-107KS (intersection safety system integrated in all-round mirror) is the efficient enhancement for any all-round mirror. The Hazard Situation Indicator provides a double effect as it combines the GSA with an all-round mirror. Employees can look in the mirror, as they normally do, but will additionally be warned in advance by the spot.

## Hazardous Situation Indicator GSA-107AV (traffic light unit)

Often, problems in confined spaces and passages are not caused by the actual hazard, but rather due to interruptions in operation generated by two encountering vehicles.

The Hazard Situation Indicator GSA-107AV prevents traffic jams through intelligent traffic management. A red traffic light signals oncoming vehicles to stop.

The system detects both incoming and outgoing vehicles automatically. The vehicle coming in first has right of way.



## DISTINCTIVE BENEFITS

- No vehicle equipment
- No personal equipment
- Easy self-assembly
- Sensor-controlled vehicle/people distinction
- Fully configured assembly unit
- Suspend at the hazard point and connect (230 VAC): ready to go (plug & play solution)
- Self-assembly and initial operation according to instructions
- Choice of three software packages
- Autom. direction detection

## Technical specifications

System	
<b>Rated voltage:</b>	100 ... 240 VAC / 50 Hz
<b>Rated power:</b>	130 W (also applies to GSA with two spots)
<b>Operating temperature:</b>	0 ... +55 °C (with NoColl 0 ... 50 °C)
<b>Enclosure:</b>	IP 65 (with NoColl IP52)
<b>Dimensions:</b>	
• <b>GSA with spot(s) (L x W x H)</b>	500 x 500 x 280 mm
• <b>GSA with mirrors (Ø x H)</b>	Ø 1130 x 470 mm
<b>Type of assembly:</b>	Steel cable suspension
<b>Weight:</b>	
• <b>GSA with one spot</b>	max. 12 kg
• <b>GSA with two spots</b>	max. 15 kg
• <b>GSA with mirrors</b>	max. 20 kg

Person and vehicle sensor		Power LED Spot	
<b>Measuring principle:</b>	Doppler radar with planar module	<b>Luminous flux (effective):</b>	864 lm
<b>Transmission frequency:</b>	24.05-24.25 GHz	<b>Light intensity:</b>	42.300 cd
<b>Transmission power:</b>	< 20 dBm	<b>Mirror</b>	
<b>Max. detection speed</b>	25 km/h for vehicles	<b>Shape:</b>	One-eighth sphere
<b>Min. assembly height for vehicle/person distinction</b>	4,5 m	<b>Material:</b>	Acrylic glass
		<b>Dimensions (Ø x H):</b>	Ø 800 x 350 mm
		<b>Viewing angle:</b>	90 °

## tbm awards



**tbm hightech control GmbH**  
 Karl-Hammerschmidt-Str. 32 · 85609 Aschheim near Munich – Germany  
 Phone +49 89 670 03 60 · Fax +49 89 637 91 72  
 E-Mail info@tbm.biz · Web www.tbm.biz

