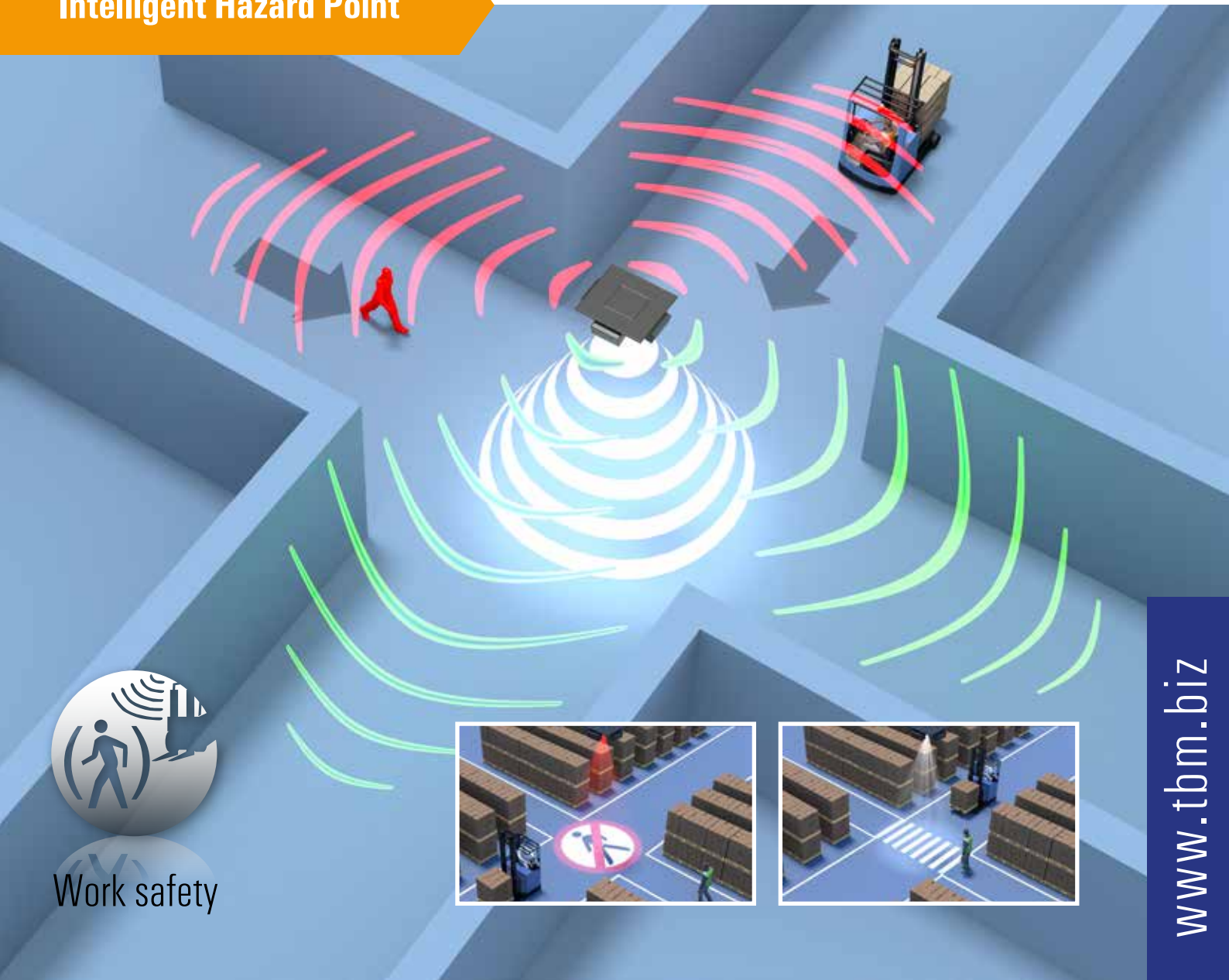


# Hazardous Situation Indicator

GSA-107

Intelligent Hazard Point



Work safety

# Anyone can “see bright”!

The **GSA-107 Hazardous Situation Indicator** protects against collisions at intersections, thoroughfares and pedestrian crossings. It warns early and effectively at danger points.

Stationary, proactive and without any fitting of the trucks. Simply hang it above the intersection, plug it into a socket – done.

The protection concept is based on innovative sensor technology and is impressive with noticeable warning signals.



## Functional description

The GSA-107 monitors every traffic lane of an intersection. It detects trucks and pedestrians; it distinguishes between trucks and pedestrians. The electronics use this information to define different hazardous situations.

No alarm signal if only pedestrians are detected and highest alarm level if truck(s) and pedestrian are detected at the same time. The alarm profile is selected on a customer-specific basis.



## Alarm

An acute danger situation is indicated by a powerful LED power spot in the centre of the intersection via a large blue light spot. This clearly differs from the blue spots often found on forklift trucks and is impressive with its high luminosity.

The latest Hazardous Situation Indicator, the GSA-107 Projector warns with a traffic sign projected on the ground. This warning signal has proven to be extremely effective and people on the road react particularly quickly to it.

## DISTINCT ADVANTAGES

- No equipment at forklift trucks
- No personal equipment
- Easy self-assembly
- Sensor-controlled truck/person differentiation
- Ready configured assembly unit
- Hang up at danger point and plug in (230 VAC): ready (plug & play solution)
- Self-assembly and commissioning according to instructions
- Three software packages to choose from
- Autom. direction recognition

## GSA-107 Versions

The PowerLEDSpot marks dangerous situations (in blue) and indicates the dangerous situations, e.g. when pedestrian and trucks are on a collision course. The red/blue variant enables a colour change and thus indicates a potential hazard even more impressively.



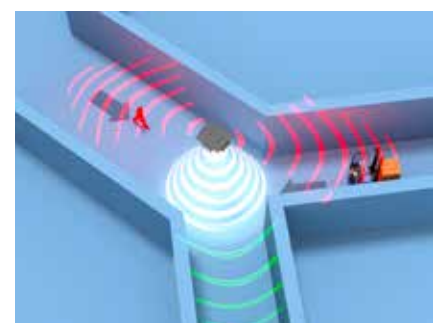
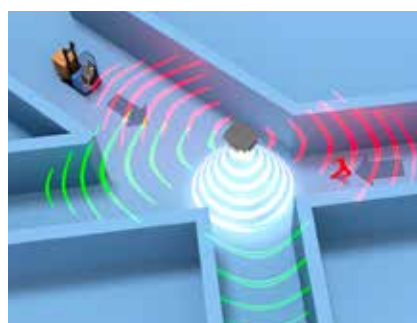
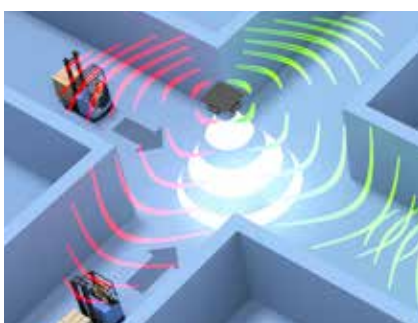
In many companies, round mirrors are a common means of providing a better overview at blind passages. Combined with the GSA, employees can look in the mirror as usual, but are additionally forewarned by the spot.

**Highest attention and highest warning** is achieved with changing traffic signs. A projector for example, 'draws' a zebra crossing permanently on the ground. If a vehicle approaches, the zebra crossing disappears and a "Pedestrian prohibited" suddenly lights up on the ground. A signal effect cannot be more noticeable than this.



## Intersections of any kind

Intersections are very different, they are not always ideal, symmetrical crossings. In these cases, the GSA-107 is supplemented by additional sensors or further spots. The GSA-107 is customised to the respective crossing area. In this way, "asymmetrical" intersections and thoroughfares are also secured.



## 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>Protection class:</b>	IP 65 (with NoColl IP52)
<b>Protection class:</b>	I
<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>GSA with projector (L x W x H)</b>	500 x 500 x 530 mm
<b>Assembly type:</b>	Wire rope suspension
<b>Weights:</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
• <b>GSA with projector</b>	max. 12 kg

Person and vehicle sensor	
<b>Measuring principle:</b>	Doppler radar with planar module
<b>Transmission frequency:</b>	24.05-24.25 GHz
<b>Transmission power:</b>	< 20 dBm
<b>Max. Detection speed:</b>	25 km/h for vehicles
<b>Min. Installation height for vehicle/ person Distinction:</b>	4,5 m

PowerLEDSpot	
<b>Luminous flux (effective):</b>	864 lm
<b>Light intensity:</b>	42.300 cd

Mirror	
<b>Shape:</b>	Eight ball
<b>Material:</b>	Acrylic glass
<b>Dimensions (Ø x H):</b>	Ø 800 x 350 mm
<b>Viewing point:</b>	90 °

Projector	
<b>Luminous flux:</b>	4.730 lm
<b>Lifetime of the LED</b>	35.000 hrs
<b>Dimensions (Ø x H):</b>	Ø 800 x 350 mm
<b>Photobiological safety according to:</b>	ICE62471-5:2015 EN62471-5:2015

## Awards won by tbm



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

