HT solutions

With the Hänsch HT solutions, you can provide the legally required geometric visibility even if the mounting of conventional beacons is not possible due to the structural conditions.

The HT solution, also referred to as half beacon or semi-continuous bar, can be mounted on the front or rear of the vehicle or can be integrated into the vehicle structure.

The various solutions from Hänsch, consist of 2 to 6 sub-assemblies, provide maximum flexibility in vehicle design. Through the HT solutions Sputnik mini and Sputnik SL the earliest possible warning effect when mounted at the front of the vehicle can be ensured e.g. in the crossing area or at exits.

INTEGRO Universal LED module

Sputnik mini HTA

Sputnik SL HTA

Integro Universal LED module

This flexible LED module can be integrated into the front or back of the roof structure of a vehicle. Together, all four amber LED modules form an all round beacon. One module, two attachment variations: the compact solution provides an additional warning effect and increased safety in road traffic.

Homologation (Germany and international):	
Light in accordance with ECE-R65:	HTA1 E1 00 3850
EMC in accordance with ECE-R10:	E1 10R-05 4465

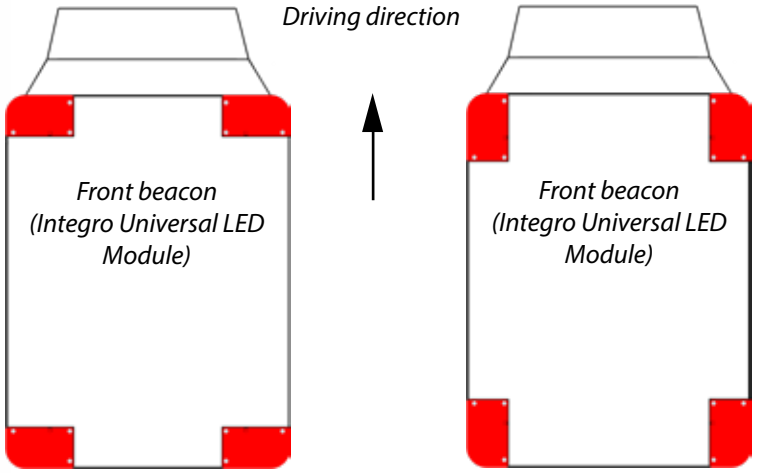
Only the pairwise operation in the front and/or rear is homologated.

PRODUCT FEATURES:

- One system consists of two identical light bodies
- 8 high-power LED with wide angle lenses
- Integrated control technology
- Connection for function monitoring
- 270° angle of radiation
- Synchronisation with several modules possible
- Homologation as half round beacon
- Colours: also available in blue and red

INTEGRATION OPTIONS:

- The LED modules can be attached at the front and/or back of the vehicle or in the roof structure of the vehicle.
- A pair of Integro LED modules (front or rear) can be replaced by an all round beacon or a roof lightbar system.



Integro Universal LED Module (long side of the module)

Integro Universal LED Module (short side of the module)

Hänsch®

Sputnik mini HTA

The new LED warning device Sputnik mini impresses with its compact dimensions and simple mounting through a round drill hole. A HT solution consists of 4 lamp bodies Sputnik SL mini and 2 lamp bodies Sputnik SL HTA. The beacon as HT solution consists of several optical systems, therefore it is not a directional beacon (front flasher).

Lamp body dimensions:
27 mm x 28 mm
(Diameter x height)

PRODUCT FEATURES:

- Highly compact design for universal usage
- Housing: Aluminium
- Exterior electronics for up to 2 lamp bodies
- Vehicle-specific HT solutions available: MB Sprinter, VW T6 volume models or projects on request

We recommend to clarify beforehand whether homologation has been granted by the relevant registration office.

VARIATIONS:

HT system consists of 4 lamp bodies Sputnik mini & 2 lamp bodies Sputnik SL

Sputnik mini HTA

Similar to picture (photo montage)

Technical data:		
Material	Housing:	Aluminium, black anodised
	Cover glass:	PC
	Electronics:	PA
Dimensions:	Lamp body:	ø 27 mm, depth 28 mm
	Electronics:	95.5 x 26 x 13 mm (WxHxD)
Weight:	Lamp body:	25 g
	Electronics:	245 g
Type of protection:	IP6K7/IPX9K	
Temperature range:	-40°C to +60°C	
Avg. power consumption*:	0.8 A at 12 V 0.5 A at 24 V	
Peak*:	2.3 A at 12 V 1.1 A at 24 V	
* electronics with 2 lamp bodies		
Flash pattern:	Strobe flash (configurable)	
Homologations: (Germany and international)		
Light in accordance with ECE-R65:	HT A1 (E5) 00 0072	
EMC in accordance with ECE-R10:	(E1) 10R-05 8617	

Systems consist of:

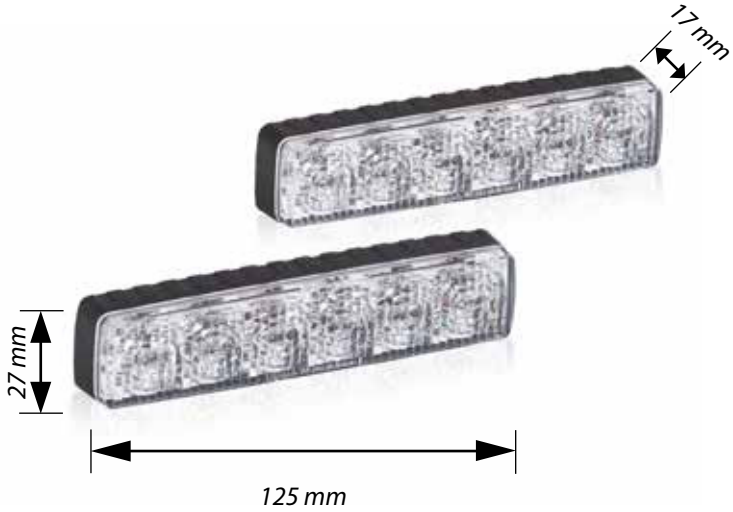
- 2 lamp bodies Sputnik SL
- 2 lamp bodies Sputnik mini with mounting ring (rubber)
- 2 lamp bodies Sputnik mini with mounting shell 22,5 °

Voltage: 12 V , 24 V
Flash mode: in sync, alternating
Option:
Activation control (only Sputnik SL)

Hänsch®

Sputnik SL HTA

The lamp bodies of the Sputnik SL HTA solution are equipped with state-of-the-art lighting technology. The LED lenses integrated in the cover glass guarantee maximum light output and a large angle of radiation (horizontal > 70 °). At intersections in particular, the light's wide beam considerably improves other road users' awareness, which reduces the risk of accidents.



Similar to picture (photo montage)

PRODUCT FEATURES:

- Maximum warning effect > 500 candela
- Two or more lamp bodies can be synchronised
- Choice of different flash patterns
- Can be adjusted to fit the contour of the radiator grille
- Complete adhesion of the lamp bodies ensures insensitivity to high pressure or steam jet cleaning
- Universal holders and various vehicle-specific holders are available for optimal positioning and easy mounting
- Y-cable for easy electrical connection available

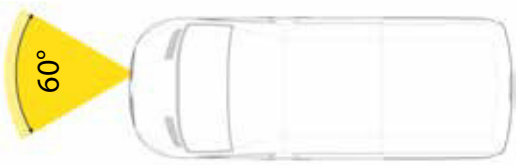
Technical data:	
Designation:	Sputnik SL
Voltage:	9 - 32 V
Average power consumption:	12 V: 0.8 A (per LK) 24 V: 0.6 A (per LK)
Type of protection:	IP6K7/IPX9K
Homologation:	
Light in accordance with ECE-R65:	HTA1(E1)00 4125
EMC in accordance with ECE-R10:	(E1)10R-05 6845

Glossary

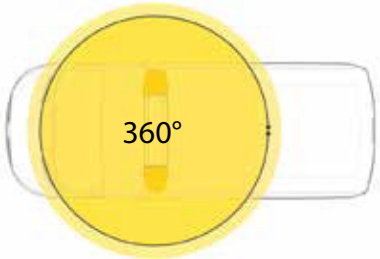
What is a T solution or an HT solution?

T solutions or HT solutions are beacons (rotating or fixed beacons) for flashing light that intermittently light out around their vertical axis (Category T and HT).

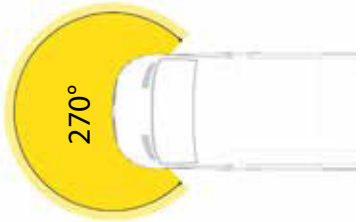
Angle of radiation for directional beacons
In accordance with category X:



Beacons according to category T radiate 360° to intermittently light out around its vertical axis.

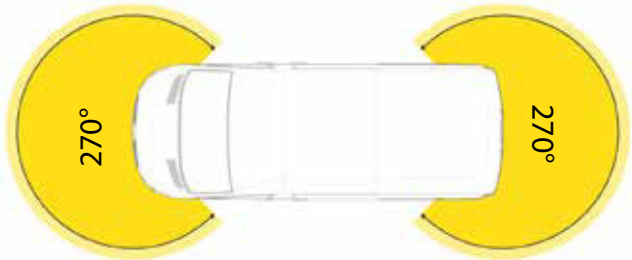


Beacons in accordance with category HT radiate 270° (from 135° left to 135° right) to intermittently light out around its vertical axis.



seen from the front of the vehicle

seen from the rear of the vehicle



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