HT solutions

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The various solutions from Hänsch, consisting of 2 to 6 lamp bodies, 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 intersections or at exits.

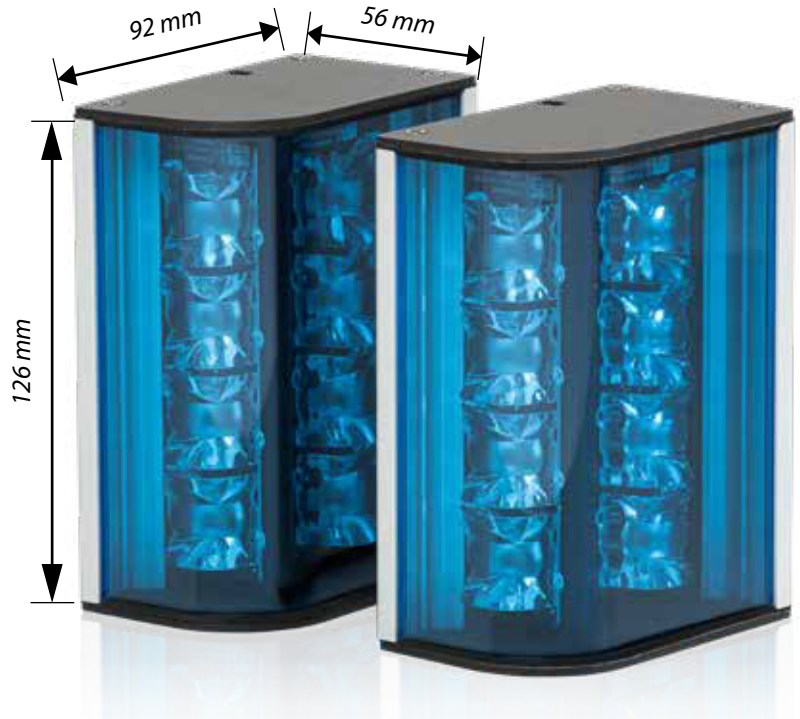
INTEGRO Universal LED module

Sputnik mini HTB

Sputnik SL HTB

INTEGRO Universal LED module

To identify special-purpose vehicles in use, this flexible LED module with K2 homologation can be integrated into the roof structure at the front and rear. One module, two attachment variations: the compact solution provides an additional warning effect and increased safety in road traffic.



Homologation (Germany and international):	
Light according to ECE-R 65:	HTB2 (E1) 00 3851 (blue)
EMC according to ECE-R 10:	(E1) 10R-05 4465

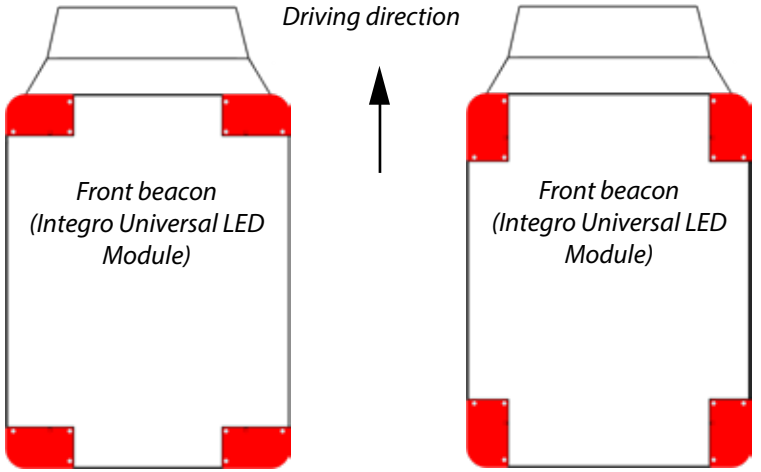
This product's certification is only valid if used pairwise in the front and/or the rear of the vehicle.

PRODUCT FEATURES:

- one system consists of two identical lamp modules
- including day/night switching
- 8 high-power LEDs with wide angle lenses
- integrated control technology
- connection for function monitoring
- 270° angle of radiation
- synchronisation with several modules possible
- homologation as half beacon
- colours: also available in amber and red

INTEGRATION OPTIONS:

- The LED modules can be attached at the front and/or rear of the special-purpose vehicle respectively in the roof fitting of the vehicle.
- A pair of Integro LED modules (front or rear) can be replaced by a 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 HTB

The new LED- warning device Sputnik mini impresses with its compact dimensions and the simple installation method in the round drill hole. With 2 lamp bodies the system can be used as front flasher. A HT solution is homologated with 6 Sputnik minis, whereby the lamp bodies in the middle can be replaced by special Sputnik SL or Sputnik Compact. 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:

- very compact design for universal use (front, rear, mirror **, wind deflector **, light pole **)
- housing: aluminium
- external electronics for up to 2 lamp bodies
- vehicle-specific HT solutions available: MB Sprinter, VW T6, further volume models or projects on request
- various areas of applications: homologation as directional beacon and as half beacon (functional beacons on request)

** First it must be clarified whether homologation has been granted by the relevant registration office.

VARIATIONS:

1. HT system consisting of 6 lamp bodies Sputnik mini
2. HT system consisting of 4 lamp bodies Sputnik mini & 2 lamp bodies Sputnik SL (Y-cable for easy electrical connection available)
3. HT system consisting of 4 lamp bodies Sputnik mini & 2 lamp bodies Sputnik Compact (Y-cable for easy electrical connection available)

Sputnik mini HTB

(1)

System consists of:

- 4 lamp bodies Sputnik mini with mounting ring (rubber)
- 2 lamp bodies Sputnik mini with mounting shell 10°

Voltage: 12 V / 24 V multi voltage
Flash pattern: synchronous

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 according to ECE-R 65:	HTB1 (E5) 00 064 (Ver.1)/HTB1 (E5) 00 066 (Ver.2)/HTB1 (E5) 00 067 (Ver.3)	
EMC according to ECE-R 10:	(E1) 10R-05 8617	

(2)

System consists of:

- 2 lamp bodies Sputnik SL
- 4 lamp bodies Sputnik mini with mounting shell 10°

Voltage: 12 V / 24 V multi voltage
Flash pattern: synchronous, alternating
Option:
activation control (only Sputnik SL)

(3)

System consists of:

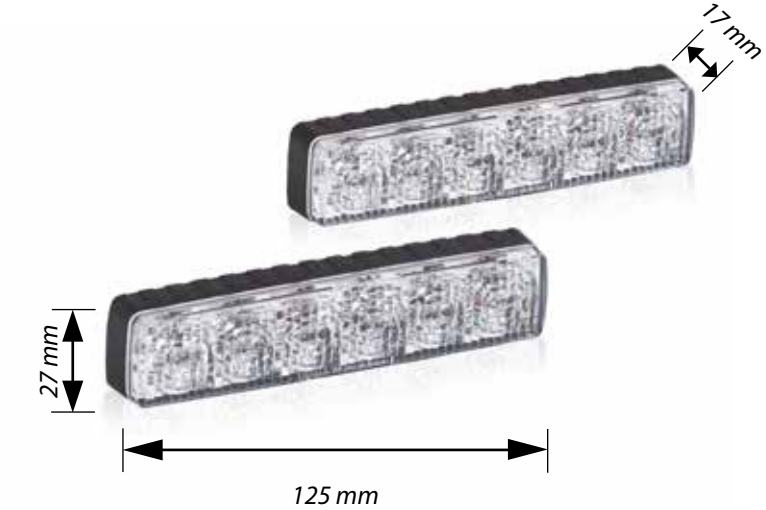
- 2 lamp bodies Sputnik Compact
- 4 lamp bodies Sputnik mini with mounting shell 10°

Voltage: 12 V / 24 V multi voltage
Flash pattern: synchronous, alternating

Hänsch®

Sputnik SL HTB

The directional flasher Sputnik SL features state-of-the-art lighting technology. The cover glass and the integrated optics of the LEDs 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.



PRODUCT FEATURES:

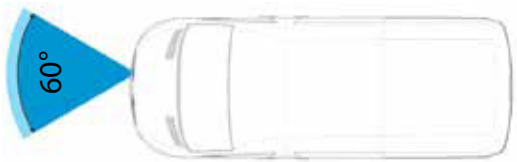
- maximum warning effect > 500 candela
- two or more lamp bodies can be synchronised
- choice of different flash patterns
- can be adjusted to fit the contour of the radiator grille
- complete sealing of the lamp bodies ensure insensitivity to high pressure or steam jet cleaning
- universal holders and 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:	12 V / 24 V multi voltage
Average power consumption:	12 V: 0.8 A (per LK) 24 V: 0.6 A (per LK)
Type of protection:	IP6K7 / IPX9K
Homologation:	
Light according to ECE-R 65:	HTB1 (E1) 00 4126
EMC according to ECE-R 10:	(E1)10R-05 6845

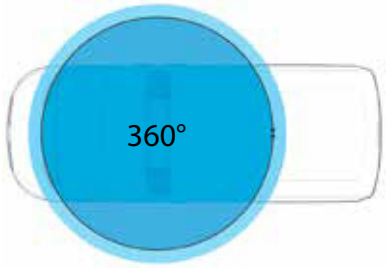
What is a T solution or an HT solution?

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).

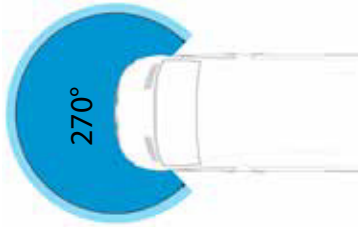
Angle of radiation for directional beacons
According to category X:



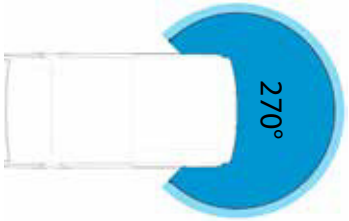
Beacons according to category T radiate 360° to intermittently light out around its vertical axis.



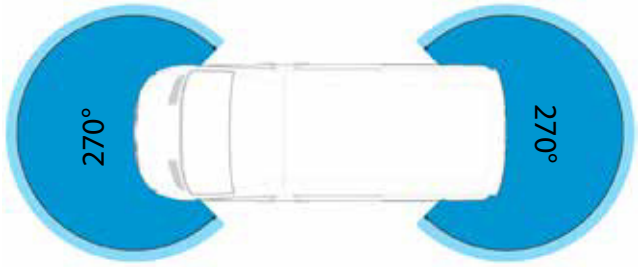
Beacons according to category HT radiate 270° (from 135° left to 135° right) to intermittently light out around its vertical axis.



seen from the front of the vehicle



seen from the rear of the vehicle



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