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## **PINLUXON 550 (TLs02 DB version) Position Light Signal**

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# PINLUXON 550 (TLs02 DB version)

## Field of operation:

The position light signal TLs02 (DB version) can be used e.g. in shunting, auxiliary and local interlocking areas as well as in hump yards on federal railways (EdB) – in conjunction with LST systems of the types TMC-STW, TMC-RaStw, TMC-EOW or TMC-ZBA.

## Function:

For the high construction type (top position), the signal units are mounted to the signal head in such a way that their slanted cover lens faces slightly upwards (see illustration 1). The signal switching cabinet accommodating the signal's connection electronics (module LSB10) for the high construction type has the same external dimensions as the signal head and is mounted on the signal carrier or foot of the signal mast with an adapter plate at the same height as for the signal head installation on the low construction type.

For the low construction type (dwarf signal – installation at the bottom), the signal units are mounted in the signal head by rotating them in an angle of 180°. For the low construction type, the LSB10 module is accommodated in the signal head/housing.

The light control module (LSB) controls and monitors the LED strands of all connected signal transmitters of an LS signal and provides a serial data interface to the interlocking computer.

The SE-LED-MF-70 signal transmitter module is used, fulfilling the optical requirements of the specifications by DB Netz AG for protection signals.

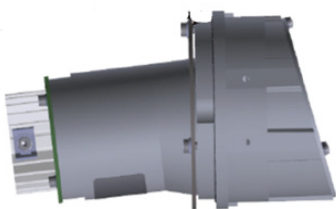


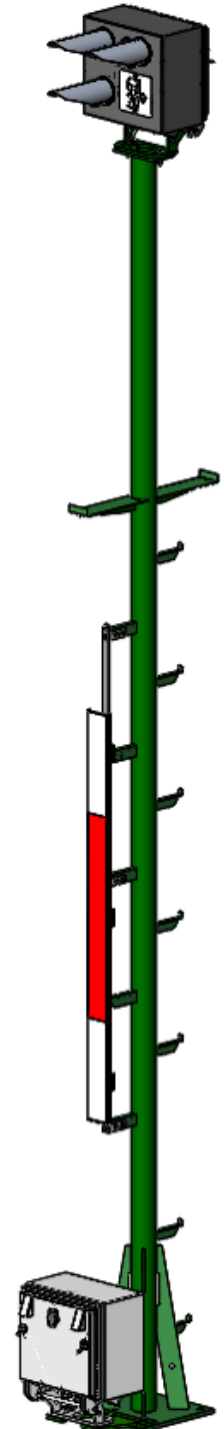
Illustration 1: SE-LED-MF-70 signal unit (orientation for installation on top)

Signal colour	Day mode luminous intensity $I_{0/0}$ [cd] (type)	Night mode luminous intensity $I_{0/0}$ [cd] (type)	Colour
Red	180 – 400 (255)	12 – 50 (40)	Red according to DIN 6163
White	180 – 400 (328)	12 – 50 (41)	White A&B according to DIN
Yellow	120 – 240 (225)	12 – 50 (41)	Yellow according to DIN 6163

Table 1: Light values

## Application:

Ls signal – e.g. installation on top:



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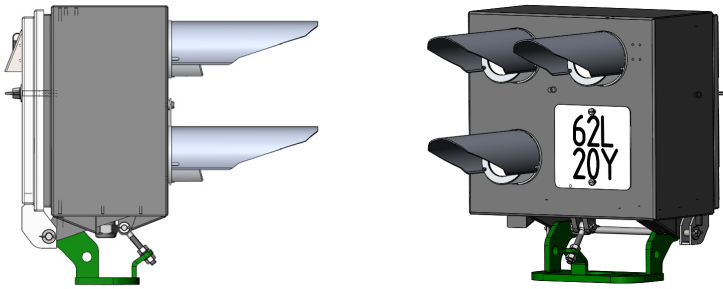


Illustration 2: TLs02 DB version – installation on top

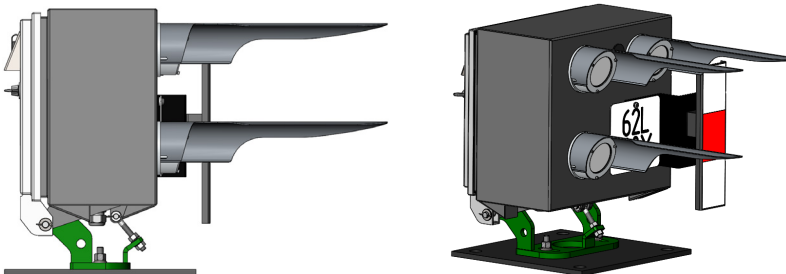


Illustration 3: TLs02 DB version – installation at the bottom

## Features:

- DB specifications
- Multi-colour technology
- Multi-channel operation, through to the optical system
- Very good close and distant visibility due to special scattering optics
- Very homogeneous illumination of the illuminated areas due to special scattering optics
- High availability due to LED technology
- Very low power consumption
- DB approval

## Version:

The position light signal TLs02 (DB version) is available in various configurations for the versions installation on top and installation at the bottom.

## Technical data:

- Dimensions: H 360 mm X W 390 mm X D 250 mm
- Weight: max. 20 kg
- Ambient temperature: -30°C - +40°C
- Protection class: IP 54
- Light colour and luminous intensities: according to DB specifications (see table 1)
- Electrical interface: The LSB10 module is supplied with 230 V AC via a power transformer and a corresponding rectifier circuit in the signal switching cabinet (installation on top) or in the signal head (installation at the bottom). The LSB10 module supplies the LED signal unit with electrical energy.