

www.pintsch.net



Signals.

Seeing and being seen.



PINLUXON 550 (MC-LP136 & MC-LP70) Multicolour Signal Unit

2-100002801-54EN | Rev: 00 | 16.08.2022

PINLUXON 550 (MC-LP136 & MC-LP70)

Field of operation:

The signal units PINLUXON 550 (MC-LP136) and PINLUXON 550 (MC LP70), in combination with the electronic modules (supply module and light control), are a modern and modular LED multicolour signal unit system – e.g. for application in the compact signal of the (Ks) signalling system, in the Ls signal of interlocking systems of the EdB (German Federal Railways) and NE (non-federal railways).

Function:

The signal units are mounted together with the electronic modules in the corresponding signal cabinet. Each colour of a light spot comes with its own electronic module. The light spots are operated with pulse-width modulated (PWM) LED currents and are equipped with state-of-the-art LED technology ensuring an availability of at least 15 years.

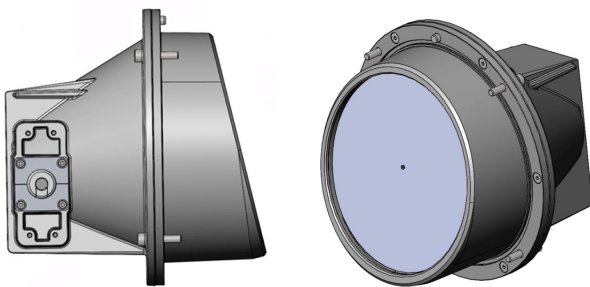


Illustration 1: Signal unit PINLUXON 550 (MC-LP136)

Versions of MC-LP136:

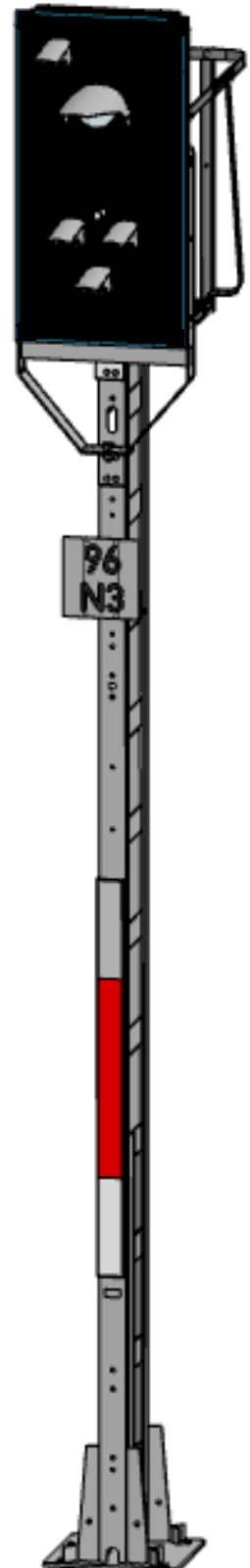
The large signal unit is designed as a multicolour light spot in the colours red, yellow and green. The colour white is also available if required. The LED channels are redundant. Due to the modular design, the electronic modules can be adjusted to the individual customer's interface. The multi-channel design enables the light spot to generate up to 6 colours, depending on the customer's requirements (adaptation required).

Technical data:

- Dimensions: H 190 mm X W 190 mm X D 177 mm
- Weight: ~ 1.2 kg
- Ambient temperature: -40°C - +70°C
- Protection class: IP 20 (optional IP 54 variant)
- Light colour and luminous intensities: according to DB LH
Luminous intensity I_{type} RD, YE, GN ~ 1100cd (day mode)
- Electrical interface: Control via electronic modules

Application:

e.g. in the Ks screen as main signal



PINLUXON 550 (MC-LP136 & MC-LP70)

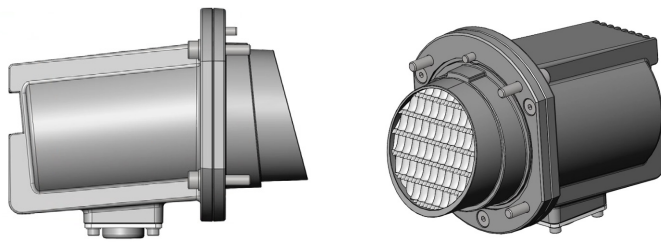


Illustration 2: Signal unit PINLUXON 550 (MC-LP70)

Versions of MC-LP70:

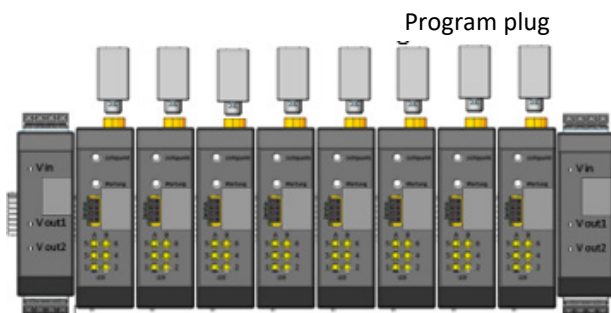
The small signal unit is designed as a multi-colour light spot in the colours white and yellow, white and red or green and yellow. The LED channels are redundant. Due to the modular design, the electronic modules can also be adjusted to the individual customer's interface. The multi-channel design allows up to 4 colours to be realised, depending on the customer's requirements (adaptation necessary). In addition to positioning the small signal unit at the top, e.g. in the Ks screen, it can also be positioned at the bottom, e.g. in the Ls signal. For this purpose, the light spot must simply be installed rotated by 180° around the horizontal.

Technical data:

- Dimensions: H 102 mm X W 102 mm X D 144 mm
- Weight: ~ 0.5 kg
- Ambient temperature: -40°C - +70°C
- Protection class: IP 20
- Light colour and luminous intensities: according to DB LH
Luminous intensity $I_{\text{Type RD}} \sim 220 \text{ cd}$ / $\text{YE} \sim 220 \text{ cd}$ / $\text{GN} \sim 220 \text{ cd}$ / $\text{WH} \sim 300 \text{ cd}$
- Electrical interface: control via a.o.

Electronic modules:

Depending on the number of signal units and the number of functions used (light colours), the individual electronic modules are mounted and connected to each other on a top-hat rail via rail bus connectors. Program plugs are used to assign an individual configuration to each light spot.



Electronic module

Illustration 3: Electronic modules

Features:

- CENELEC EN5012X
- SIL 4
- DB specifications
- DIN 6163
- Modular light signal
- 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 illuminated areas due to special scattering optics
- High availability due to LED technology
- Very low power consumption