

RSSL100

RSSL 100.12 is our new generation shunting signal equipped with reliable power LED signal units. The signal housing is produced of stainless steel and painted in matt black colour. Sabik shunting signal can easily be modified for different market specifications and the state of the art architecture of the unit offers adjustability needed for safe and smooth operation with various interlocking systems and local environmental conditions such as cable type and length and signal transformer type.

- **Light generation with 8 power LEDs used with low current for high reliability**
- **Automatic night time dimming according to the input voltage / power level**
- **Wide operational voltage range: 6,0-14,0 VAC (TRMS)**
- **Unique Line Test feature ensuring stable turn on and off regardless of the coupled power on the signal line**
- **Optical feedback monitoring of each individual LED**
- **Adjustable power consumption with Dummy Load power resistor**
- **Many adjustable operational parameters: current consumption in day and night mode, turn on and off power levels, luminous intensity levels, turn on and off delays, voltage hysteresis level for day-night-mode change, frequency of the AC line voltage, number of failed LEDs allowed for operation**
- **Access to operational parameters with wireless IrDA connection or with serial cable**



- **Optional features: 3 optoisolated digital outputs for the interlocking system to monitor the signal status: Signal On output, Minor Error output for signal health monitoring, Major Error output for self shutdown monitoring**
- **All optoisolated digital outputs are potential free and non-polar**
- **Robust mechanical structure – LED Signal Unit housing of casted aluminum**
- **Thermally designed for power LEDs to be used for the light source**
- **High optical performance, special design to minimize the Phantom effect**
- **Metal housing of stainless steel tolerates impacts and offers good EMC protection**

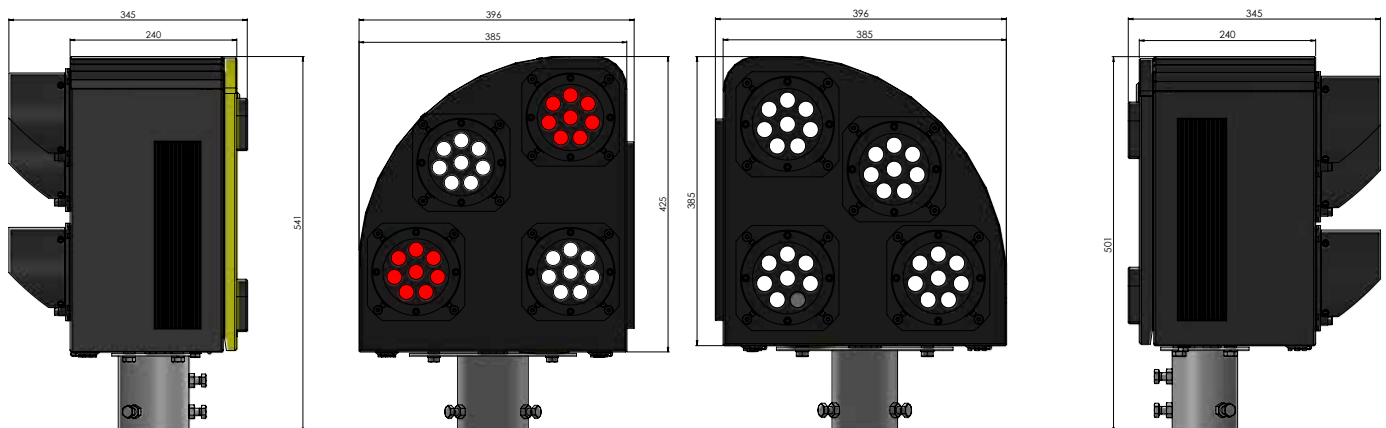
Main Technical Specification

Visual lens size	4 x 100 mm
Lens material	Polycarbonate
Light source	8 power LEDs per light unit
Luminous intensity day	600 cd (can be adjusted)
Luminous intensity night	100 cd (can be adjusted)
Luminous divergence	8 ° @ 50 % (±1 °) and 15 ° @ 10 % (±2 °) of top intensity
Supply Voltage Day	10 - 14 VAC, nominal voltage 12 VAC
Supply Voltage Night	6 - 10 VAC, nominal voltage 8 VAC
Line Transient Protection	Signal Unit equipped with overvoltage protection units
Power Consumption Day	10 W - 30 W, can be adjusted with the dummy load resistor
Power Consumption Night	5 W - 15 W, can be adjusted with the dummy load resistor
Power consumption Off mode	< 0,5 W
Signal turn on and off delay	70 ms, can be adjusted to 40 ms
Temperature range	-40 ° - +65 ° according to EN 50125-3 class T1 and T2
Control outputs	3 optoisolated digital outputs, voltage max 350 VDC or 250 VAC
Protection class	IP 56
EMC test	According to EN 50121 and EN 50124
Design	According to EN 50129
Weight	18,5 kg

Product

12 VAC interface

RSSL 100.12FI	2 x red
Finnish model	2 x white
RSSL 100.12NO	4 x white
Norwegian model	



Finnish model

Norwegian model