

LED Signal Unit for Tunnel Installations

Features:

- Light Emitting Diode (LED) technology offers the ultimate in reliability, resulting in lower operating and maintenance cost.
- Operation and Lamp Proving Compatible with EI and Relay Interlocking
- Phantom Free Design, Multi array arrangement, Low Power Consumption, Fail Safe Design.
- Comply with the general and technical requirements of LED signal units for railway signaling applications
- 110V AC fed LED Signal Lighting Units.
- Minimum visibility distance of Main Signal LED Signal Lighting Units is 200 Meter
- LED Signal Lighting Units is visible to a driver stopping at the foot of the signal.
- Current regulator is built-in
- RED, YELLOW, GREEN and VIOLET
- LEDs driven at current well below specified safe limit to enhance life
- UV Stabilized lense to meet outdoor applications
- Approved by RDSO Lucknow- Indian Railways



RDSO Specification No-
RDSO/SPN/153/2011 Rev. 4.1 (Draft)

Technical Specifications:

Color of the Unit	Red / Yellow / Green / Violet (For MAIN Signal in METRO in place of Yellow)
Power Supply	110 V AC, SINGLE PHASE, 50 Hz
Input Variation	88 to 132V
Input Current	112 mA to 168 mA (Within 110V +/- 20% & -10°C To 70°C)
Load Regulation	± 2% (From 88V to 132V)
Display Area	85 mm dia ± 1 mm
Operation Temperature	-10°C To 70°C. (RH UPTO 90%)
Illumination	72 - 112 Lux (at 1.5 mtr in Axial Direction) [Red, Yellow, Green]
Color Co-Ordinates	RED / GREEN : Class 'C' OF BS 1376-1974 YELLOW : Class 'B' OF BS 1376-1974
No. of LEDs	Min. 30 in case of Red and Yellow, Min. 15 in case of Green and Violet
Di-electric Strength	> 100 MΩ
H.V. Breakdown Test	1.5 kV applied between All current carrying shorted together and Earth for 1 minute
Guranteed off Voltage	Below 70V
LED Failure Detection	Before Light output lower than 50% of nominal.

Note: VIOLET signals are not covered under RDSO specification.

Based on Customer Requirement, Signals can be supplied with Powder Coated Enclosure (MS / SS / Aluminium)
With complete Internal Wiring and Terminations

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