

LED Signal Unit for Main Aspect With Integrated Current Regulator

Features:

- Light Emitting Diode (LED) technology offers the ultimate in reliability, resulting in lower operating and maintenance cost.
- Compatible with SSI 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 application in RE & NON-RE
- 110V AC fed LED Signal Lighting Units.
- Minimum visibility distance of Main Signal LED Signal Lighting Units is 600 Meter (In clear daylight with peak sunrays at rated voltage).
- LED Signal Lighting Units is visible to a driver stopping at the foot of the signal.
- Lamp proving possible through Relay (ECR) or Electronic Means (EI)
- RED, YELLOW, GREEN and VIOLET
- Approved by RDSO Lucknow- Indian Railways
- UV Stabilized lense to meet outdoor applications
- Current regulator is built-in



**RDSO Specification No-
RDSO/SPN/199/2010**

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	82.5 to 137.5V
Input Current	110 mA to 150 mA (Within 110V +/- 20% & -10°C To 70°C)
Load Regulation	± 2% (From 82.5V to 137.5V)
Display Area	125 mm dia ± 1 mm
Operation Temperature	-10°C To 70°C. (RH UPTO 90%)
Illumination	>150 Lux (at 1.5 mtr in Axial Direction) [RED & GREEN 150(-10% to +40%) YELLOW 175]
Color Co-Ordinates	RED / GREEN : Class 'C' OF BS 1376-1974 YELLOW : Class 'B' OF BS 1376-1974
No. of LEDs	Min. 60 in case of Red and Yellow, Min. 30 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.

VIOLET signals are used in place of YELLOW aspect, in METRO RAIL

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