

LED Signal Unit for Main Aspect With Independent 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, METRO & MONO RAIL installations
- Minimum visibility distance of 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
- UV Stabilized lense to meet outdoor applications
- Current regulator is Independent unit
- Current regulator comply to IP-65
- Approved by RDSO Lucknow- Indian Railways



**RDSO Specification No.
RDSO/SPN/153/2011**

Technical Specifications:

Color of the Unit	RED / YELLOW / GREEN / VIOLET
Power Supply	110 V AC, SINGLE PHASE, 50 Hz
Input Variation	82.5 to 137.5V
Input Current	112 mA to 154 mA (Within 110V +/- 25% & -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 95%)
Illumination	RED & GREEN - 150 Lx (-10% to +40%), YELLOW - 175 (-10% to +40%)
Dispersion Angle	4° to 10°
Color Co-Ordinates	RED & GREEN - Class 'C' YELLOW - Class 'B' OF BS 1376-1974
No. of LEDs	Min. 60 in case of Red and Yellow, Min. 30 in case of Green
Di-electric Strength	> 100 MΩ
H.V. Breakdown Test	2kV applied between All current carrying terminals shorted together and Earth for 1 minute
Guaranteed Off Voltage	Below 60V
LED Failure Detection	Before Light output lower than 50% of nominal.

Notes: VIOLET signals are not covered under RDSO specification.
VIOLET signals are used in place of YELLOW aspect, in METRO RAIL