

# 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, 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 Built In
- Unit comply to IP-65
- Approved by RDSO Lucknow- Indian Railways



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

## Technical Specifications:

<b>Color of the Unit</b>	RED / YELLOW / GREEN / VIOLET
<b>Power Supply</b>	110 V AC, SINGLE PHASE, 50 Hz
<b>Input Variation</b>	82.5 to 137.5V
<b>Input Current</b>	110 mA to 150 mA (Within 110V +/- 25% & -10°C To 70°C)
<b>Load Regulation</b>	± 2% (From 82.5V to 137.5V)
<b>Display Area</b>	125 mm dia ± 1 mm
<b>Operation Temperature</b>	-10°C To 70°C. (RH UPTO 95%)
<b>Illumination</b>	RED & GREEN - 150 Lx (-10% to +40%), YELLOW - 175 (-10% to +40%)
<b>Dispersion Angle</b>	4° to 10°
<b>Color Co-Ordinates</b>	RED & GREEN - Class 'C' YELLOW - Class 'B' OF BS 1376-1974
<b>No. of LEDs</b>	Min. 60 in case of Red and Yellow, Min. 30 in case of Green
<b>Di-electric Strength</b>	> 100 MΩ
<b>H.V. Breakdown Test</b>	2kV applied between All current carrying terminals shorted together and Earth for 1 minute
<b>Guaranteed Off Voltage</b>	Below 60V
<b>LED Failure Detection</b>	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

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