

Retrofit LED SIGNALS – A Marker



Generally Confirming to RDSO/SPN/153/2023 Rev:5.0

General Auto Electric Corporation

D/207, Ansa Industrial Estate, Saki Vihar Road,
Saki Naka, Andheri (East), Mumbai – 400072.

TEL: (+91 22) 6692 3194/6692 3195 FAX: (+91 22) 6692 3196
E-mail: sales@gaec.in

Features

TECHNOLOGY	Light Emitting Diode (LED) technology offers the ultimate in reliability, resulting in lower operating and maintenance cost.
RETROFIT	Fit in to the existing Color Light Signal Housing of Calling On Aspect without any modifications.
COMPATABILITY	Compatible with SSI and Relay Interlocking.
DESIGN	Phantom Free Design Hi Reliability SMD LED Technology Multi array arrangement Low Power Consumption Fail Safe Design Isolation with Main Line Supply
RE & NON RE AREA	Comply with the general and technical requirements of LED signal units for railway signaling application in RE & Non-RE areas.
VOLTAGE	110V AC fed LED Signal Lighting Units.
EFFECT OF FLOATING VOLTAGE	Signal unit BLANK below 70 V.
VISIBILITY	Minimum visibility distance of Main Signal LED Signal Lighting Units is 200 Meter (In clear daylight with peak sunrays at rated voltages).
LAMP PROVING	Lamp proving can be done with AC LED ECR as per STS / E / Relays / AC Lit LED Signal / 09-2002.
COLORS AVAILABLE	WHITE
PROTECTIONS	The design is Fail Safe in nature and all the necessary protections are included in the circuit. However, for additional protections, MOV at Input Terminals is provided for Surges & Fuse in Input Circuit is provided For Any Short Circuit.

Parameters

LED Signal Unit With Inbuilt Current Regulator	
Color of the Unit	WHITE
Power Supply	110 V AC, SINGLE PHASE, 50 Hz
Input Variation	+/- 20%
Input Current	120 mA to 165 mA (Within 110V +/- 20% & -10°C To 70°C)
Load Regulation	+/- 2% (From 88V to 132V)
Letter Height	Min. 70 mm
Operation Temperature	-10°C To 70°C. (RH UPTO 90%).
Illumination	>10 Lux at 1.5 mtr IN Axial Direction (With Stencil & Diffuser in front of LEDs)
Color Co-Ordinates	Class 'C' OF BS 1376-1974
ECR	QECX 61 OR EQUIVALENT as per STS / E / Relays / AC Lit LED Signal / 09-2002
Governing Specification	The unit generally meets requirements as per RDSO/SPN/153/2023 Rev 5.0 as applicable.
LED Type / Make	SMD LEDs, Nichia / Osram make
No. Of LEDs	Min. 30

Outline Drawing

