Sigmaguard LED Style L Signal
LED Signal Technology at Incandescent Prices

Exceptional Value
Benefit from the superior performance of premium LED signals for a price similar to incandescent signals.

Exceptional Reliability
Multiple LEDs and parallel circuitry combined with the exceptional reliability of LED technology leads to lower maintenance costs and fewer train delays than incandescent lamps—essential for today’s rail industry.

Application
The Style L signal housing is designed for Siemens LED signal modules. It allows the full benefit of LED technology without sacrificing the essential functional requirements of mounting, rigidity and adjustment.

Benefits
- Housings for 1, 2, 3 or 4 aspects
- Low whole-of-life cost
- Reliability far surpasses incandescent signals
- Integral mounting for PJ1 Single Arm junction route indicators
- Long service life
- Low power consumption
- Phantom-free design
- High strength, lightweight, polycarbonate LED Element enclosure, IP65 rated
- 200 mm diameter
- 5-year standard warranty
Description
Houses 1, 2, 3 or 4 high-reliability LED modules.
Powder coated, marine grade aluminium housing exploits the full benefits of LED signal elements.
Rear access through a single hinged door is not hindered by aspect separators required for incandescent signals. Abundant room for cable termination, internal wiring and replacement or maintaining of modules.
Two series:
• Standard—suitable for most applications
• 92G—optimised for use with VHLC, EC-4, EC-5, Electrologix, MicroLok II, GenraKode and VPI

Reliability
Doesn’t rely on a single light source for safety-critical signalling applications: multiple LEDs in the signal elements are arranged as an interconnected matrix.
Not only are LEDs over 1000 times more reliable than incandescent lamps, but the light output will never reduce by more than 5% if one fails.
Siemens confidently provides a 5-year warranty.

Lenses
An individual built-in lens for each LED improves beam deflection and provides greater light concentration.
Lens options are:
• medium spread
• intermediate
• long range

Construction
High strength polycarbonate LED element enclosure provides:
• clarity and superior optical properties
• resistance to heat distortion
• resistance to impact
• UV stability
• sealing to IP65 rating

Lamp Proving Load Options
Please discuss your requirements with us.

See also:
• Datasheet 1A-8—LED retrofit kits for colour light signals
• Datasheet 9A-3—flashing light LED signals and retrofit kits
• Datasheet 1A-11—140 mm subsidiary LED signal applications

Specifications

<table>
<thead>
<tr>
<th>Supply voltage range</th>
<th>12 Vdc</th>
<th>110 Vac</th>
</tr>
</thead>
<tbody>
<tr>
<td>at 12 Vdc, or 110 Vac</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nominal power—Standard series</td>
<td>Medium</td>
<td>Intermediate</td>
</tr>
<tr>
<td>Red</td>
<td>7.0 W</td>
<td>7.0 W</td>
</tr>
<tr>
<td>Yellow</td>
<td>11.0 W</td>
<td>7.8 W</td>
</tr>
<tr>
<td>Green</td>
<td>8.0 W</td>
<td>8.0 W</td>
</tr>
<tr>
<td>White</td>
<td>8.0 W</td>
<td>8.0 W</td>
</tr>
<tr>
<td>Blue</td>
<td>8.0 W</td>
<td>8.0 W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nominal current—92G series @ 12 Vdc</th>
<th>Medium</th>
<th>Intermediate</th>
<th>Long</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>1.7 A</td>
<td>1.5 A</td>
<td></td>
</tr>
<tr>
<td>Yellow</td>
<td>1.7 A</td>
<td>1.5 A</td>
<td></td>
</tr>
<tr>
<td>Green</td>
<td>1.5 A</td>
<td>1.5 A</td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>1.5 A</td>
<td>1.6 A</td>
<td></td>
</tr>
</tbody>
</table>

Guaranteed off voltage (signal will always be totally dark below this voltage)
Red: 7.3 Vdc, Yellow: 3.5 Vdc, Green: 45 Vac (59 Vac for -70)

Total harmonic distortion (ac only) ≤ 20% over full Vac range
Power factor (ac only) > 0.9 over full Vac range
Surge protection: 80 ms, 45 Vrms, 360 Vms
Electrical noise: AREMA part 11.5.1 Class A
Operating temperature: –40°C to +74°C
Resistance to dust and moisture: IP65
Resistance to vibration: AREMA Section 11 Class B
Weight of head (approx): 1 aspect 14 kg, 3 aspect 25 kg
Module diameter: 200 mm (nominal) Illuminated aspect diameter: 180 mm (nominal)

Typical sighting distances
Medium spread (suburban and low speed country use) 600 m against bright skyline
Intermediate (country use) 1.5 km against bright skyline
Long (country use with long sighting distances) 2.5 km against bright skyline

Ordering
Please provide:
• number and colours of aspects
• lens type
• supply voltage
• module options
• top-of-post or gantry mounting
• housing back colour
See our Product List or call our sales staff.

Datasheet 1A-12 issue 15.0

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