SIEMENS

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Sigmaguard LED Style L Signal

LED Signal Technology at Incandescent Prices



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

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.

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



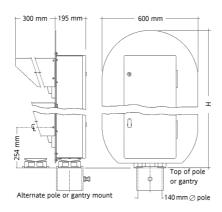
Individual multifaceted lenses put the light precisely where it's needed



Closeup of a single LED with individual

Specifications

			12 Vdc	110 Vac
Supply voltage range			6.0–16 Vac 8.0–16 Vdc	85–135 Vac
Nominal power—Standard series		Medium	Intermediate	Long
at 12 Vdc, or 110 Vac	Red Yellow Green White Blue	7.0 W 11.0 W 8.0 W 8.0 W 8.0 W	7.0 W 7.8 W 8.0 W 8.0 W 8.0 W	7.0 W 7.8 W 8.0 W 8.0 W 8.0 W
Nominal current—92G series @ 12 Vdc This family of signals do not draw constant power; power increases with voltage There are no ac versions	Red Yellow Green White	1.7 A 1.7 A 1.5 A 1.5 A	1.5 A 1.5 A 1.5 A 1.6 A	
Guaranteed off voltage (signal will always be totally dark below this voltage)		7.3 Vdc 3.5 Vdc	45 Vac (59 Vac for -70)	
Total harmonic distortion (ac only)	< 20% ov	< 20% over full Vac range		
Power factor (ac only)	> 0.9 over full Vac range			
Surge protection	Applied fo	or 80 ms	45 Vrms	360 Vrms
Electrical noise	AREMA part 11.5.1 Class A FCC title 47 B section 15			
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 Illuminated aspect diameter	200 mm (nominal) 180 mm (nominal)			
Colour				
Wavelength and chromaticity (white & blue to special order)	Red Yellow Green White Blue	630 nm, 592 nm, 508 nm,	x=0.704, x=0.592, x=0.089 x=0.310, x=0.130	y=0.295 y=0.406 y=0.475 y=0.320 y=0.075
Typical sighting distances				



Intermediate (country use)

Medium spread (suburban and low speed country use)

Long (country use with long sighting distances)

Number of aspects	H mm		
1	560		
2	840	Aspect spacing 280 mm	
3	1120	280 mm	
4	1400		

Ordering

Please provide:

• number and colours of aspects

600 m against bright skyline

1.5 km against bright skyline

2.5 km against bright skyline

- lens type
- supply voltage
- module options
- top-of-post or gantry mounting
- housing back colour

See our Product List or call our sales staff.

Siemens Mobility Pty Ltd

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