

Wayside Signal

by Unipart Dorman

Modernize your Wayside Signal assets with an LED Signal, backed by an unrivaled industry track record.



ColorLITE Signal



Way Ahead in Signaling

Patent Pending. Covered by U.S. Patent Publication No. US 2019-0077428

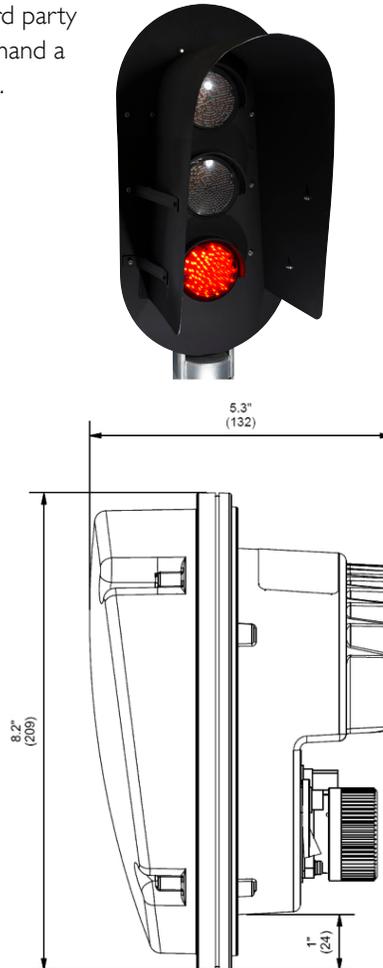
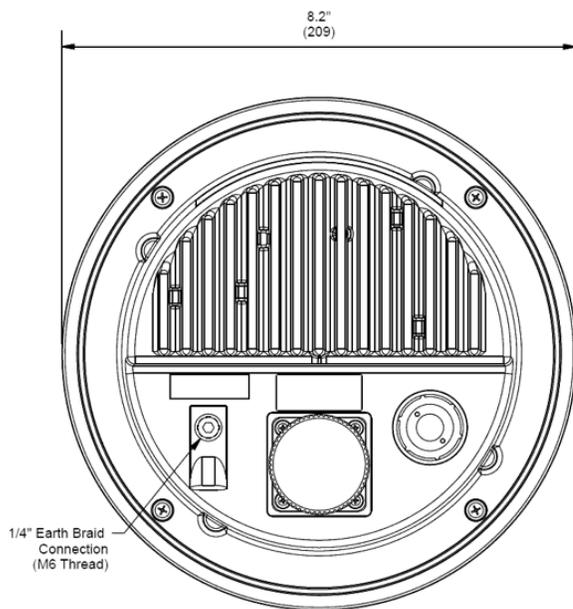
INTELLIGENT ENGINEERING, UNIQUE PEOPLE, WORKING TOGETHER

Best in Class

Unipart Dorman's Wayside - ColorLITE signal series have been developed with close industry collaboration to provide a unique solution. The LED light sources deliver innovation with universal value, provide a long and predictable life, giving huge benefits to railroad operators.

The reliability of the Wayside series is based upon design excellence developed over 30 years of supplying LED Signals into the UK railway sector where Unipart Dorman have installed over 100,000 signals, delivered unprecedented reliability with over 40 million fault free operational hours, achieved measurable operating field life performance of 13yrs+ (and still going strong), attained a 3rd party certified zero maintenance LED signaling solution, and command a 95% market share of every LED signal type on the network.

- Unipart Dorman track record incorporated into AREMA compliant design
- Slim Profile Retrofits into all existing signal housings, exact same foot print as SearchLITE
- AREMA+ thermal shock tested to replicate and exceed real field temperature extreme variations
- Multiple Interlocking compatibility, cold and hot proving with patented 5/16 light out technology
- Cost Reduction in current Asset Operation and Maintenance through enhanced reliability over extended life



Technical Data

Technical Data	Compliance
Nominal supply voltage	12VDC
Supply voltage range	8.0-16.0V
Nominal current @ 12v	Greater than 1100mA
Storage temperature	-67°F to +185°F / -55°C to +85°C
Operating temperature	-40°F to +158°F / -40°C to +70°C
Vibration	AREMA 11.5.1 D4 Class B
Shock	AREMA 11.5.1 D5 Class B
Ingress	NEMA 250-1991 Enclosure 4 - EN60529 IP65
EMI	AREMA 11.5.1 D6
Dielectric strength	AREMA 11.5.1 D7 Class B
Colours	AREMA 7.1.10
Luminous intensity Long Range (5000ft)	LED Signal Module Purchase Specification
Luminous intensity Medium Range (2000ft)	LED Signal Module Purchase Specification
Hot Filament Test	AREMA 7.1.5 B1
Cold Filament Test	AREMA 7.1.5 B2
Light Out Detection	AREMA 7.1.5 B3
Outer Lens Construction	High Impact Polycarbonate front cover with external UV resistant hard coating to reduce scratching during cleaning operations. Medium Range signals are fitted with a tinted cover.
Rear Housing Construction	Aluminum casting incorporating heatsink, pressure vent and sealed connections, allowing for greater internal environmental control, which in turn prolongs the operational life of signal
Dimensions	Dia 8.2" (209mm) Depth 5.3" (132mm)
Weight	4.5lbs/2kg
Electrical Interface	43"/1092mm freewire leads terminated with 1/4"/M6 ring terminals. 8"/200mm earth bonding strap with 5/16"/M8 ring tab.



Operation

The Wayside - ColorLITE Series are fully compliant with AREMA C&S requirements and have been mechanically fit tested to a wide variety of incumbent Colorlight and Searchlight signal housings.

The Wayside - ColorLITE series are equipped with 43"/1092mm free wire leads terminated with 1/4"/M6 ring terminals to allow connection with local AAR terminals in the head.

The Wayside - ColorLITE Series are designed to be compatible with all interlocking controllers and does not require any software or circuit design modification to install.

The units are capable of interfacing to systems that have both Hot and Cold Filament Tests and also Light Out detection.

The unit has been successfully tested already on the following 12v interlocking systems:

- AC Relay
- AC Relay with DC bias
- EC4
- iLOK
- MicroLOK 2
- VHLC
- ElectrologIXS
- GEO

Please refer to user guide for full installation instructions.

Model / Product coding

Wayside Series	Module Options	Long Range UD Part No	Medium Range UD Part No
ColorLITE	Single Colour Red, 12v, Pulse Proved, Standard outer cover, Free Wired Connection	WSCL/R--/3PI/AF	WSCM/R--/3PI/BF
ColorLITE	Single Colour Yellow, 12v, Pulse Proved, Standard outer cover, Free Wired Connection	WSCL/Y--/3PI/AF	WSCM/Y--/3PI/BF
ColorLITE	Single Colour Green, 12v, Pulse Proved, Standard outer cover, Free Wired Connection	WSCL/G--/3PI/AF	WSCM/G--/3PI/BF

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About Unipart

The Unipart Group is a leading UK manufacturer, full service logistics provider and consultant in operational excellence. Operating across a range of market sectors, including automotive, manufacturing, mobile telecoms, rail, retail and technology, Unipart offers a breadth of services to a wide range of blue chip clients internationally.

Contact us:



Wennington Road
Southport
Merseyside
PR9 7TN
UK
T: +44 (0) 1704 518000
E: dorman.enquiries@unipartdorman.co.uk



173 Main Street
Bath
Ontario
K0H 1G0
Canada
T: +1 (0) 61 335 23 458
E: dorman.enquiries@unipartdorman.com



Westcode Inc
223 Wilmington -
West Chester Pike
Suite 105, Chadds Ford
PA 19317
T: +1 (0) 610 738 1200
E: sales@westcodeus.com

Unipart Dorman

173 Main Street, Bath
Ontario, K0H 1G0
Canada
T: +1 (0) 61 335 23 458
email: dorman.enquiries@unipartdorman.com

www.unipartdorman.com