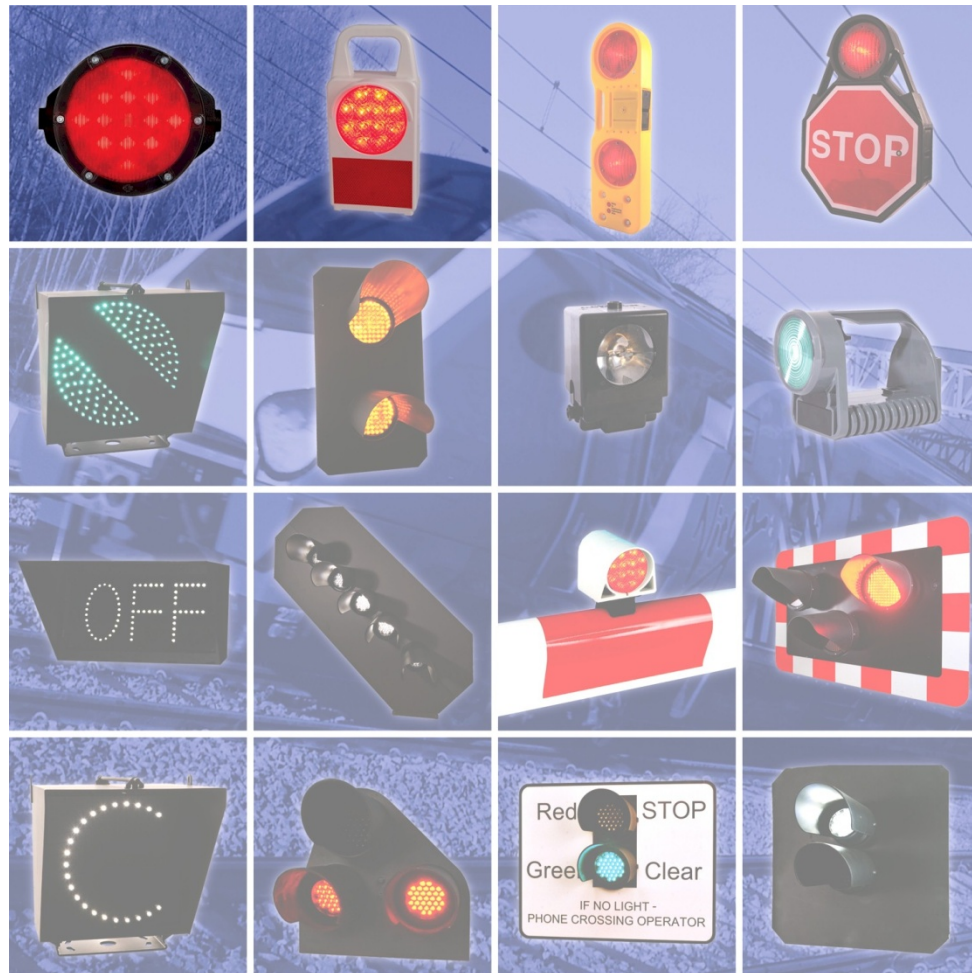


Trainborne Range



Unipart Dorman's LED Signaling Range:

With over 25 years of experience in LED Rail Signaling, Unipart Dorman has a complete range of Network Rail approved LED signals that are backwards compatible with the existing systems on the UK infrastructure.

This comprehensive range covers nearly 500 approved items to date and Unipart Dorman has in excess of 60,000 signals now installed across the network. Where Unipart Dorman LED signals have been installed, failures and delays associated with the signal heads have been virtually eliminated.

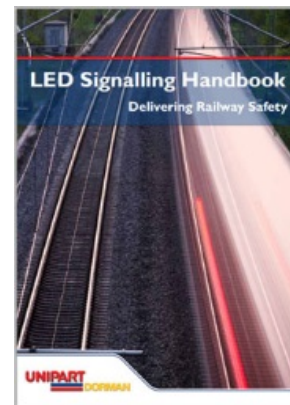
Unipart Dorman, Design & Manufacturing Capabilities:

Unipart Dorman's engineering heritage goes back over 130 years. The innovation and design-led business philosophy revolves around listening closely to customers and ensuring product development is always focused on their requirements. Unipart Dorman is a leading light in rail with extensive product ranges available throughout the UK and in more than 30 countries across five continents.

Unipart Dorman has been at the forefront of LED technology since the 1980's. LED lighting offers unrivalled safety and economic benefits when compared to filament bulbs and the company's technological leadership has resulted in several industry 'firsts', including ConeLITE, the industry-standard warning lamp for road hazards, and the Unipart Dorman Position Light Signal, introduced in 2000 and the first LED signal which controlled train movement fully approved by Network Rail to Railway Group Standards.

Unipart Dorman product and specifications subject to change and/or modification without prior notice.

The Trainborne Range is just part of the wider portfolio of Unipart Dorman products which cover every part of the railway.



The LED Handbook contains full details of all the rail products. Contact us to receive your copy, or visit uniparttrail.com/ledhandbook for the PDF version

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LED Fixed Tail Lamp & LED Fixed Marker Lamp



The Unipart Dorman LED Fixed Tail Lamp and the LED Fixed Marker Lamp are compliant with UK Network Rail specifications and Rail Group Standards.

- Dramatically reduces train maintenance and running costs
- Unit can be quickly and easily fitted to existing lamp housings using supplied adaptor rings
- Increased safety and reliability
- Supplied with B22d bayonet connector fitted
- Supply voltages available | 110Vdc, 74Vdc and 24Vdc
- Increased visibility and safety is achieved by a unique optical system and use of LEDs
- Compliant with Visibility Group Standard GM/RT 2483 : Issue 1

LED technology is virtually 'fit and forget'

LED Fixed Marker Lamp

Product Details

LED Fixed Tail Lamp

Product Details

Fixed Marker Lamp Photometric Requirements		
Requirement	Details	Specification
Type of light source	LED	
Colour of light source	White	
Light output	300cd min on optical axis	GM/RT 2483 Issue 1
Lens	High impact polycarbonate	

Mounting

Both lamps can be mounted in single, double or triple units. And come complete with an adaptor ring to cater for different diameters where required.

Connection

Both lamps are fitted with a B22d bayonet connector as standard. If you require a different connector please contact Unipart Dorman to discuss your needs.

Fixed Tail Lamp Photometric Requirements		
Requirement	Details	Specification
Type of light source	LED	
Colour of light source	Red	
Light output	110cd min on optical axis	GM/RT 2483 Issue 1
Lens	High impact polycarbonate	

Unipart Dorman Part No:
LED Fixed Marker Lamp

LED Fixed Marker Lamp, 110v, to fit BMAC single light unit	LFM2N/W/01/A/00
LED Fixed Marker Lamp, 110v, to fit BMAC double light unit	LFM2N/W/01/B/02
LED Fixed Marker Lamp, 110v, to fit J Stone light unit	LFM2N/W/01/A/04
LED Fixed Marker Lamp, 110v, to fit Carrier Sultrek light unit	LFM2N/W/01/B/06
LED Fixed Marker Lamp, 74v, to fit BMAC single light unit	LFM2N/W/03/A/00
LED Fixed Marker Lamp, 74v, to fit J Stone light unit	LFM2N/W/03/A/04

Sealing

Lamp front units are sealed to IP66 and rear units are sealed to IP44 as specified in EN60529:1992.

Temperature

The operating temperature for both lamps is -25°C to +55°C which complies with RIA 13:1990.

Unipart Dorman Part No:
LED Fixed Tail Lamp

LED Fixed Tail Lamp, 110v, to fit BMAC single light unit	LFT2N/R/01/A/00
LED Fixed Tail Lamp, 110v, to fit BMAC double light unit	LFT2N/R/01/B/02
LED Fixed Tail Lamp, 110v, to fit BMAC triple light unit	LFT2N/R/01/B/03
LED Fixed Tail Lamp, 110v, to fit J Stone light unit	LFT2N/R/01/A/04
LED Fixed Tail Lamp, 110v, to fit class 47 tail light unit	LFT2N/R/01/B/05
LED Fixed Tail Lamp, 110v, to fit BMAC single light unit	LFT2N/R/03/A/00
LED Fixed Tail Lamp, 110v, to fit J Stone light unit	LFT2N/R/03/A/04
LED Fixed Tail Lamp, 110v, to fit BMAC single light unit	LFT2N/R/02/A/00
LED Fixed Tail Lamp, 110v, to fit BMAC double light unit	LFT2N/R/02/B/02
LED Fixed Tail Lamp, 110v, to fit BMAC triple light unit	LFT2N/R/02/B/03
LED Fixed Tail Lamp, 110v, to fit J Stone light unit	LFT2N/R/01/A/04

For Both Lamps

Electrical Specification (For Both Lamps)				
	110Vdc	74Vdc	24Vdc	Specification
Nominal voltage	110V	74V	24V	RIA 13:1990
Nominal current	25mA	25mA	75mA	
Nominal wattage	2.75W	1.8W	1.8W (3W for Marker Lamp)	
Surge and transients	Yes	Yes	Yes	RIA 12:1984
EMC	Yes	Yes	Yes	BSEN 61000 -4 -4.5 & 6
Polarity conscious	No	No	No	
Bayonet connector	B22d	B22d	B22d	

