



Award for LED technology

NRS and Dorman Traffic Products awarded

"Infrastructure Excellence of the Year"

for LED Signalling Technology.

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- **Multi-aspect long range Colour Light Signal**
- **Ground and Shunt Signals**
- **Junction Route Indicators**



Awarded at the HSBC Rail Business Awards in February 2004. Now there's another reason to use Network Rail approved LED signalling from NRS.



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NRS

In a joint entry to the HSBC Rail Business Awards on Monday 23rd February, Dorman and NRS were awarded the Rail Infrastructure Excellence of the Year title for the development of LED signalling technology.

Through significant technological advances, with specific application for railway environments, Dorman and NRS have brought enhanced safety, long-life, and low-maintenance to railway signalling. The products are unique and the only LED products currently receiving Network Rail approval.

Peter Aldridge, head of HSBC Rail, which sponsors the awards scheme, said: 'This award recognises the innovation and inventiveness in developing a system that will contribute significantly to rail safety.'

This is a tremendous achievement and the second time that NRS has won an HSBC award for excellence – in 2002 NRS was voted Supplier of the Year for outstanding service to the rail industry.

The new LED signalling technology from Dorman and NRS is now in operation on the railway infrastructure.

LED TECHNOLOGY INNOVATION

For a long time LED technology has been recognised as being the future for signalling applications, and ultimately will be the standard for all railway applications where filament lamps are currently used.

In areas such as Panel Lamps, LEDs have been in use for a few years. In Panels, LEDs are particularly useful as they have much lower operating temperatures than filament lamps, which means that burn hazards to signalmen and technicians are reduced, as is the effect of heat on surrounding components and panel fascias. In addition to this, their enhanced life span – lasting around 10 times longer than their filament alternatives – means that they need replacing a lot less frequently.

TECHNOLOGICAL ADVANCES

NRS has been working closely with its industry partner, Dorman, to develop solutions to the technological barriers to LEDs being used in a wider range of rail industry applications.

Phantoming, where reflected light gave the appearance of a lit signal, has been combated through altering the angle of the lenses within each individual LED.

Lamp Proving (the ability to detect that the LED modules are functioning) has been



NRS managing director Graham Jackson receives the award from William Hill, President of the Association of Rail Training Providers.



Fully approved LED Ground and Shunt Signal.

enhanced by developing specialised circuitry.

The final barrier was the issue of colour. LEDs have traditionally been available in a restricted range of colour frequencies due to technical difficulties.

These have been resolved by Dorman to give LED colours, which are identical to the original filament lamp/lens configurations. With these technological barriers now removed, there has been a series of trial installations on the infrastructure.

ABOUT DORMAN

Dorman Traffic Products is Britain's largest and most respected manufacturer of Hazard Warning Equipment. Its expertise in LED technology has been built up over a number of years and its products can be seen

throughout the road infrastructure in the form of the flashing cone beacons.

These beacons are the UK's market leader and form part of a wide range of hazard warning equipment for the road network.

ABOUT NRS

National Railway Supplies is the maintenance materials logistics partner for Network Rail, AMEC SPIE and Balfour Beatty, managing 219 customer warehouses and stocking points across the country. NRS also supplies materials to the other infrastructure maintainers, and provides planning and logistical services to the West Coast modernisation programme.

The NRS service encompasses the whole supply chain providing logistics, distribution and materials management on a range of 23,000 products.



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