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Health and safety

Every effort has been made to ensure the accuracy of the information given in our publications, but in accordance with our policy of continually improving our products we reserve the right to modify designs and specifications whenever necessary. All equipment is designed to conform to relevant British and International standards. Every care is taken to ensure that, as far as reasonably practical, it will perform without risk to health. It is essential that accepted codes of professional practice are followed in the assembly, installation and commissioning of the equipment. If in doubt with respect to any of these instructions, please consult Dorman before installing the device.

Dorman reserves the right to vary any component part to meet the required specifications without prior notice.

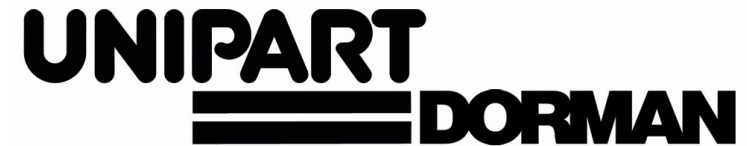


Certificate No. FM 14371

Dorman ref. No C64.63709 Iss 4

Semaphore Lamp Assembly – Great Western Railway Installation Instructions

To be read before commencing



Operation



INSTALLATION INSTRUCTIONS

It is recommended that this unit is installed by a qualified electrician and wired in accordance with the relevant track and signal code of practice.

Please Note:- There are no serviceable parts inside this unit.

MOUNTING:-

This unit has been designed to be fixed into an existing Semaphore Outer Housing. There is no fixings to hold the inner lamp assembly in place, it is held by the means of a base magnet and an eccentric cam.

- 1) Assemble cable through aperture in base of Outer Housing
- 2) Locate the Inner lamp assembly into the Outer Housing with the 'ARROW' marked on top of unit pointing towards the magnification lens within the Outer Housing. See Example Below.
- 3) On assembling orientate Lamp base into lamp location datum guide then lower.
- 4) Lock the Inner Lamp in position by turning the eccentric cam in a clockwise direction to minimise any excessive play of the lamp within the Outer Housing.
- 5) Feed the cable into terminal box and connect with approved connectors. The unit is polarity conscious and recommend wire colour conventions are followed. Ensure grommets/cable ties are used where required to prevent cable damage. See Wiring for details of wire colour and terminations.
- 6) The alignment of the unit is factory set to an average setting and a final adjustment can be completed for aligning the centre beam light output position to an optimum setting on installation if required. See Adjustment and General Assembly.

ADJUSTMENT

Horizontal Adjustment

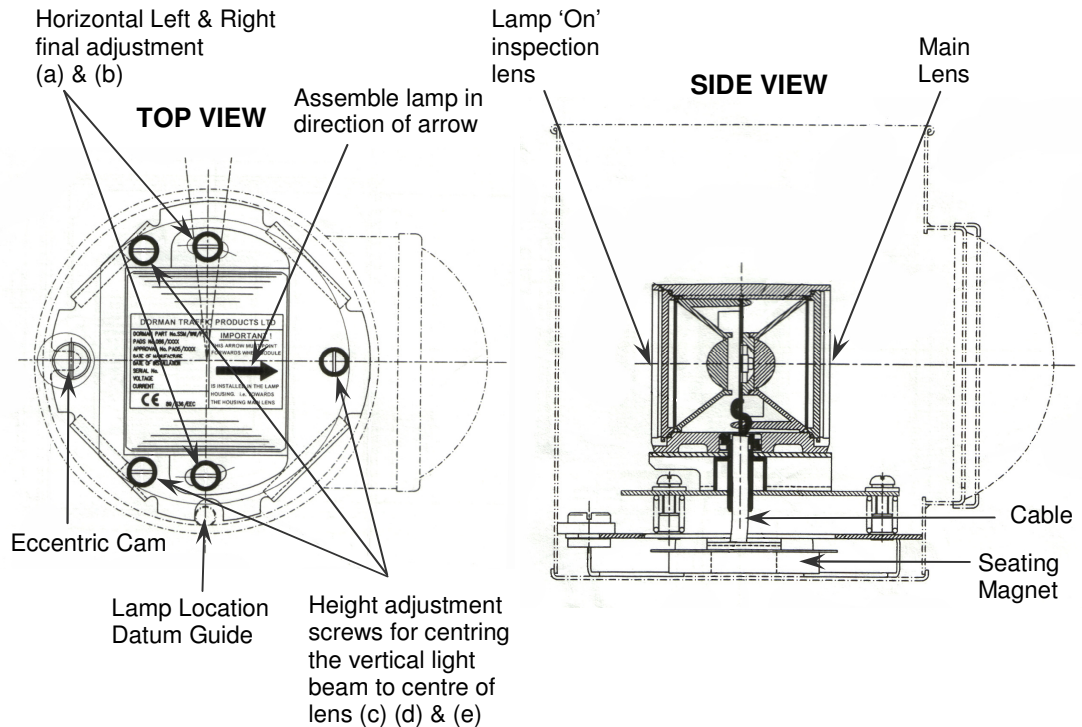
- 1) Illuminate the lamp and from the sighting distance point, view the light output and if required, set firstly the horizontal centre beam by loosening the two M6 slotted screws (a) & (b) and by turning the lamp in slight movements left or right to achieve the optimum horizontal beam setting. Tighten M6 screws once the optimum setting is achieved. See General Assembly.

Vertical Adjustment

- 2) With the lamp is illuminated and viewing from the sighting distance point, view the light output and adjust if required the M6 slotted screws (c) (d) or (e) up or down in the desired vertical direction to achieve the optimum vertical setting. See General Assembly. Note: It is recommended that these final adjustments are carried out by two persons.



GENERAL ASSEMBLY OF 'GWR' LAMP TO PRESSED STEEL LAMP CASE



WIRING:

Colour Codes and designation of Wires:

Brown	= Supply +Ve
Blue or (Grey)	= Supply -Ve
Green/Yellow	= Proving Relay Contact
Black	= Proving Relay Contact

SPECIFICATION:-

- Compliant with Railway Group Standard GK/RT/0031
- Nominal Supply Voltage 4V Min - 18V Max dc
- Nominal Current 24mA
- Proving Voltage 2V Min – 30V Max
- Max Proving Current 100mA
- Network Rail Approval Certificate No. PA05/2786
- Railway Industry Part No. PADS 086/009860
- Spare LED Lamp Assy PADS 086/009194
- Dorman Part No SSM/WW/P/1GW

