

Mounting Instructions for Hellamarine Signal Lamps

For pleasure craft and mercantile vessels of less than 162.5 feet (50 m) overall length on mercantile-shipping routes.

Hellamarine navigation lamps are type-tested. They comply with the approval requirements of the Department of Trade (DOT) and the international maritime regulations (IMO 1972).

Mounting Regulations

White signal lamps

The white signal lamps should be mounted in such a position that the light can best be seen, without any obstruction, over the whole horizon.

They are prescribed for use as:

Signal lamps for use when under way
For vessels moving under engine power and of less than 39 feet (12.0 m) overall length, they can be fitted in place of masthead and stern lamp.

Red signal lamps
are prescribed for use as:

Anti-collision lamps (2): on all vessels of more than 12.0 m in length, under international maritime regulations (IMO). In case of need, they should be set vertically above each other (min. distance between the two lamps: 3.28 feet (1 m)). They must be mounted in an easily visible position so that they may be seen, without any obstruction, over the whole horizon.

Signal lamps for sailing craft

In addition to the prescribed lamps, a sailing craft may show two 360° lamps at or near to the top of the mast, one above the other, where they can be most easily seen. The distance between these lamps must be at least 3.28 ft (1 m). The upper lamp is red, the lower one green. They must not be shown at the same time as the tri-colour lamp.

Mounting

The signal lamps are suitable for either suspended (with wire bracket, Hella Part No. 8HG 123 791-00) or fixed mounting.

Permanent mounting

The signal lamp can be fixed in position either with M5 screws (direct mounting) or 2 M5 screws (mounting on base. Hella Part No. 9XB117 690-00). **1**

Electrical Wiring

To avoid voltage drop, the cable used should be of minimum size 1.5 sq.mm if less than 33 ft (10 m) long, and of minimum size 2.5 sq.mm if over 33 ft (10 m) long.

Turn dome to left and remove. Remove the outer insulation (sheath) and pass the separate bared cores (a) through the base plate (b), fit the thermal protection sleeve (c) over the ends of the leads (a) and screw into the base plate (b) with the pressure ring (d) and the pressure screw (e). **2**

Cable connection by means of flat-plugs (flag type). Insert separate bared cores in flag-type flat plug as shown in illustration. The following order is to be observed: **3**

1. First, secure the insulation of the separate cores.
2. Secure cores.

The securing tongues should be rolled to ensure perfect contact. Replace the dome and turn to the right until the marks on dome and base plate coincide.

Changing the Bulb

Remove the dome by turning to the left. **4**
Fit new bulb. The required wattage is marked on the dome. When fitting the bulb, note the difference in height between the pins of the bulb cap. Replace the dome and turn to the right until the marks on dome and base plate coincide.

Bulbs required

Use only Hellamarine special bulbs with BAY 15d cap and bearing the mark "ZP and " (approved for navigation and signal lamps) on the cap. 10 W for white signal lamps, 25 W for coloured signal lamps. Check the voltage of the electrical system: 12 V or 24 V. Part numbers of the Hellamarine special bulbs for these lamps:

Hellamarine special bulbs for these lamps:

8GA 003 488-12 12V 10W

8GA 003 488-30 12V 25W

8GA 003 488-13 24V 10W

8GA 003 488-31 24V 25W

Hella Longlife bulbs with an average service life of 1200 hours.

Note

Seawater-resistant materials of superior quality and modern manufacturing processes ensure unvarying quality and long life. Hellamarine signal lamps are therefore non-corrodible. For cleaning the lamp dome and base plate, use only fresh water and non-caustic or non-biting cleaning agents.

