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Improved radar signal returning

The prime purpose of the Electronic Radar Reflector is to increase the probability that the aids-to-navigation equipment will be seen on the radar of commercial shipping.

It aims to achieve this by returning an improved radar signal.

Ultraviolet-stabilised PVC radome housing

The Electronic Radar Reflector comprises an antenna unit and a control box, the two ones being connected by a 2-core cable.

The antenna unit contains the bulk of the electronics and the antenna. These are housed in an ultraviolet-stabilised PVC radome, which not only provides structure and environmental protection but also provides the means of mounting the antenna unit.

Control box display

The control box provides the on/off switch and indicator lights which show power on and when the system is transmitting (active). It also provides the voltage conditioning and protection circuitry and contains an internal, changeable Quickblow 0.5A fuze.



FEATURES

Technical Specifications

Power supply:	12V d.c. -30% -10% voltage surge
Stand by current consumption:	<15mA. 5 interrogating radar 23mA (typically). 10 interrogating radar 32mA (typically).
External accessible fuse:	0.5A.
Reception frequency:	X band (9.3-9,5 GHz).
Position Accuracy:	Within 1 meter.
E.I.R.P.:	1W (typically).

Dimensions

Antenna length:	4,8 mm.
Antenna width:	40,5 mm.
Antenna weight ex cable:	3,7 grams.
Control Box width:	92 mm.
Control Box height:	51 mm.
Control Box depth:	38 mm.
Control Box weight:	99 grams.
Cable length:	24 m of 2 core 0,5 mm ² .
Cable weight:	9,9 grams.