

VESDA Remote Display for Marine Approved Applications Installation Guide

Overview

This Installation Guide is the assembly instructions for the attachment of three ferrite beads to the communication and power cabling of the remote display, VRT-J0000-MRN. This device reflects the status of the VESDA detector VLC-50500-MRN when connected.

The products VLC-50500-MRN, VRT-J0000-MRN and VLC-50000-MRN are approved for marine applications by DNV.

Caution: Failure to comply with these Installation Instructions invalidates the marine approval for these products.

See also:

- VLC-500/VLC-505 Product Guide
- VESDA Accessories Guide

Related products:

- VLC-50500-MRN
- VLC-50000-MRN

Introduction

The VRT-J0000-MRN is the marine version of the Compact Remote Display. It provides real time indication of the smoke level, alarm and fault status of a VESDA VLC detector. In addition to the alarm, fault and smoke bargraph indicators, the unit supports an integral sounder and 7 fully configurable relays to signal the alarm and fault status to external systems. It also provides remote Reset and Isolate functionality using the 4 buttons provided.

Special requirements

When installed in a Marine environment additional EMC protection is required to ensure a safe margin of emissions in the frequency range 156 - 165 MHz. This is provided by the incorporation of 3 ferrite bead components. The following photograph illustrates the cable assemblies with the ferrites installed.

Assembly

1. Two small ferrites (P/N 0443167251) are pre-installed on the grey cable looms, which run from the display/relay-processing card to the termination card within the product. These provide the majority of the protection and should not be removed.
2. An additional larger ferrite (P/N 0431173551) is provided and should be installed around all the cables just before they exit the unit to ensure a safe margin of compliance with the Marine emissions standards. This is clearly displayed in Figure 2.



Figure 1: Overview photograph



Figure 2: Ferrite for cabling exit

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