DEEP SEA ELECTRONICS

DSE2548 Installation Instructions

INTRODUCTION

The DSE2548 LED expansion module is used in conjunction with compatible DSE controllers to provide additional LED indication functionality. The LEDs are configured in the 'host DSE controller'. The only configuration for the DSE2548 is the 'ID switch' detailed below.
For further details on configuring the 'host DSE controller', refer to the relevant DSE Configuration Suite PC Software Manual.

LED INDICATIONS

LED	Colour	Action
Status 1 to 8	Red	Lit when the corresponding item is active
Power On / Link Lost	Red	Flashing when the DC supply is connected and the data connection to the host DSE controller is not operating. Steady when DC supply is connected and data is being received from the host DSE controller.

INTERNAL SOUNDER

The DSE2548 LED expansion module has an integral sounder which may be activated upon a signal from the 'host DSE controller'. The controller may activate the sounder when an alarm becomes active and be silenced when the alarm mute button is pressed.

MUTE/LAMP TEST BUTTON

Pressing the (Mute/Lamp Test) button causes all the LEDs on the DSE2548 expansion module to light and silences the internal sounder. If configured to do so, the host DSE controller also performs a lamp test and mute function.

DSENET ID SWITCH

The rotary ID switch is used to select the DSENet 'identification' of the DSE2548 expansion module as the host DSE controller is capable of giving instructions to multiple DSE2548 expansion modules at the same time.

The switch must be operated using a small screwdriver and set to match the required ID set in the host DSE module's configuration.

NOTE: The ID MUST be a unique number that is different from the ID of any other DSE2548 module connected to the host DSE controller. If two or more DSE2548 expansion modules are required to 'mimic' each other they must be configured with different IDs, and both IDs configured the same way the host DSE controller.

NOTE: The selection of the ID of other types of expansion modules DO NOT interfere/clash with the ID of the DSE2548. For instance, if the DSE2548 is set to ID 4, it is acceptable to have a different type of expansion module (for instance DSE2130) set to ID 4 also.

REQUIREMENTS FOR UL CERTIFICATION

Specification	Description
Screw Terminal Tightening Torque	• 4.5 lb-in (0.5 Nm)
Conductors	• Terminals suitable for connection of conductor size 13 AWG to 20 AWG (0.5 mm² to 2.5 mm²). • Conductor protection must be provided in accordance with NFPA 70, Article 240 • Low voltage circuits (35 V or less) must be supplied from the engine starting battery or an isolated secondary circuit. • The communication, sensor, and/or battery derived circuit conductors shall be separated and secured to maintain at least ¼" (6 mm) separation from the generator and mains connected circuit conductors unless all conductors are rated 600 V or greater.
Communication Circuits	• Must be connected to communication circuits of UL Listed equipment
Mounting	• Suitable for flat surface mounting in Type 1 Enclosure Type rating with surrounding air temperature -22 ºF to +122 ºF (-30 ºC to +50 ºC)
Operating Temperature	• -22 ºF to +122 ºF (-30 ºC to +50 ºC)

DIMENSIONS
180 mm X 116 mm X 43 mm
(7.1" X 4.6" X 1.7")

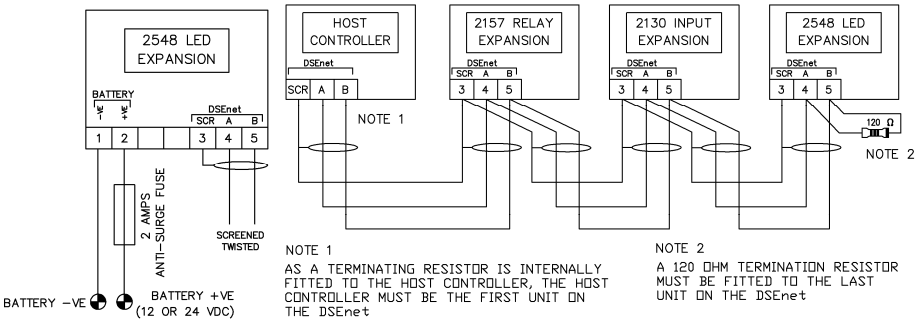
PANEL CUTOUT
154 mm X 98 mm
(6.0" X 3.9")

WEIGHT
0.36 kg
(0.79 lb)

TEMPERATURE
Operating: -40 ºC to +70 ºC
(-40 ºF to +158 ºF)

Storage: -40 ºC to +80 ºC
(-40 ºF to +176 ºF)

TYPICAL WIRING DIAGRAM



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