



INSTALLATION INSTRUCTIONS DSE2548 REMOTE ANNUNCIATOR

INTRODUCTION

This instruction sheet is provided in assisting in the installation of the 358456-1 DSE2548 Remote Annunciator Panel Assembly. For a complete DSE installation and operation manual please go to DSE website @ www.deepseapl.com.

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 controller', the DSE2548 module is not itself configured aside from the 'ID switch'. For further details on configuring the 'host controller' you are referred to the relevant configuration software manual.

POWER SUPPLY

Minimum supply voltage	8V continuous, 4V for up to 5 minutes.
Cranking dropouts	Able to survive 0V for 50mS providing the supply was at least 10V before the dropout and recovers to 5 volts afterwards.
Maximum supply voltage	35V continuous (protection to 60V)
Maximum operating current	112mA at 12V, 53mA at 24V Conditions: all LED's lit and sounder active.
Maximum standby current	74mA at 12V, 35mA at 24V Conditions: all LED's off and sounder inactive.

TERMINAL SPECIFICATIONS

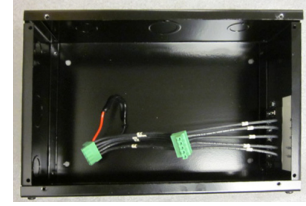
Connection Type	Screw Terminal, rising clamp, no internal spring
Min. cable size	AWG 20
Max. cable size	AWG 14
Recommended cable size	Refer to next table.

DSENET

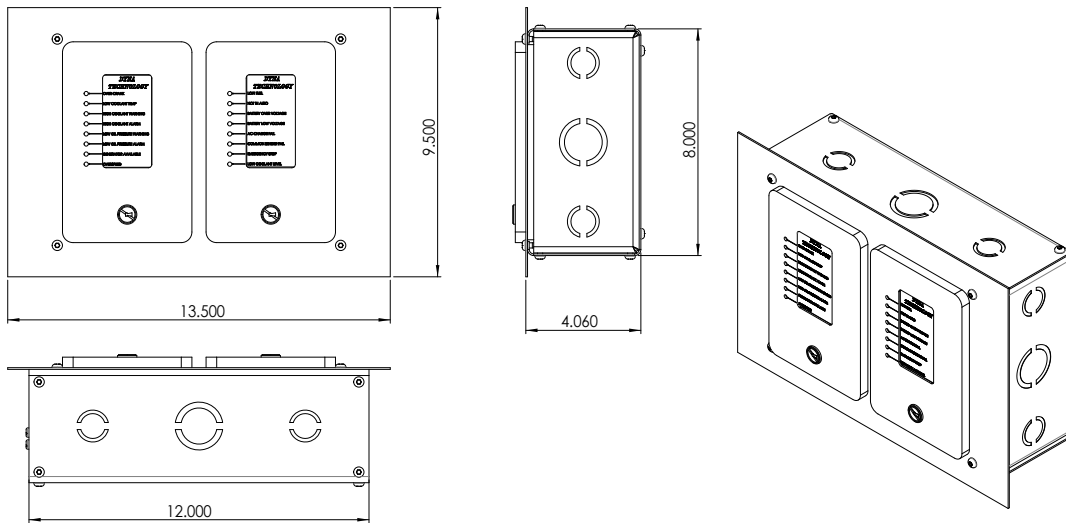
Cable type	Two core screened twisted pair
Cable characteristic impedance	120 Ohms
Recommended Cable	Belden 9841 or Belden 9271
Maximum cable length	1000m (1km) when using Belden 9841 or direct equivalent. 500m (0.5km) when using Belden 9271 or direct equivalent.
DSEnet topology	Bus with no stubs (spurs)
DSEnet termination	120 Ohms. Fitted internally to host controller. Must be fitted externally to the "last" expansion module by the customer.
Maximum expansion modules	Refer to host controller documentation.

INSTALLATION

- Remove 4 torx screws holding the panel on.
- Unplug the connectors on the two DSE modules.
- Mount the box assembly in a suitable location for your application.
- Knockouts are provided for various size conduit connections.



ASSEMBLY DIMENSIONS



USER CONNECTIONS

Terminal	Function	Recommended Size	
1	DC supply positive	AWG 18	
2	DC supply negative	AWG 18	
3	Screen		DSEnet only
4	A	AWG 20	DSEnet only
5	B	AWG 20	DSEnet only

LED INDICATIONS

FUNCTION	COLOR	ACTION
Power on / Link Lost	Red	Steady when DC supply is connected and data is being received from the host controller. Flashing when the DC supply is connected and the data connection to the host controller is not operating.
Status 1-8	Red	Lit when the corresponding channel is active.

SOUNDER

The 2548 LED expansion module has an integral sounder, activated upon a signal from the 'host controller'. The controller will activate the sounder when an alarm becomes active and silence the sounder when the alarm mute button (local or remote) is pressed.

PUSH BUTTON

Pressing the button will signal to the host controller that the button is pressed. The controller will respond by lighting all LEDs on the 2548 module (lamp test) and silencing the sounder (alarm mute). If configured to do so, the host controller will also perform a lamp test and alarm mute function.



A

ID SWITCH

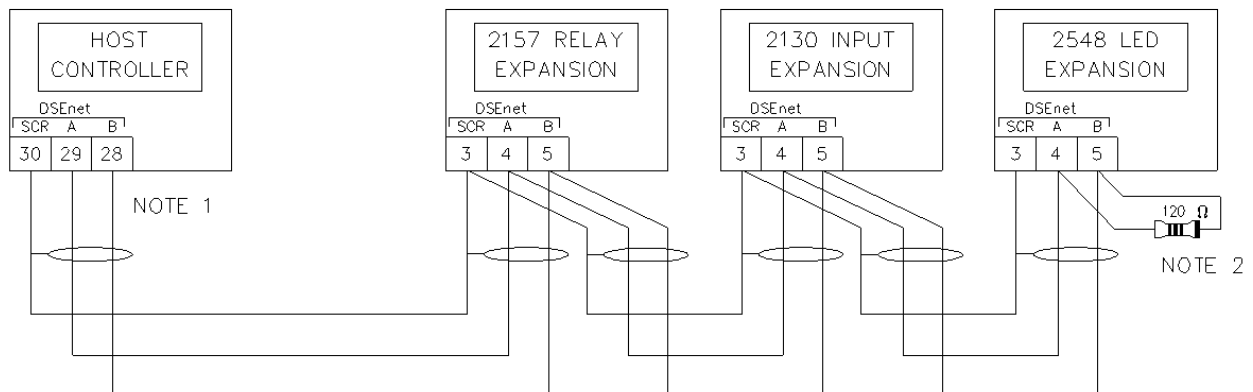
The rotary ID switch is used to select the 'Identification' of the 2548 expansion module as the host controller is capable of giving instructions to a number of 2548 expansion modules at the same time. The switch (located at the rear of the module) should be operated using a small screwdriver and set to match the required ID.

NOTE: The ID **MUST** be a unique number, different from the ID of any other 2548 module connected to the host controller. If two or more 2548 controllers are required to 'mimic' each other they should be configured with different IDs, and both configured the same in the host controller.

FAULT DIAGNOSIS

Nature of Problem	Suggestion
LEDs don't activate on the 2548 module	Ensure the host controller is correctly configured to send signals to the 2548.
Power LED indication does not illuminate	Check polarity and size of the connected DC supply are within the specifications of the DSE2548.
Power LED flashes	This means that the communications link to the host controller has been lost. Check the connection of the DSEnet paying particular attention to the cable type being used and the positioning of the termination resistors.

SCHEMATIC INTERCONNECTION DIAGRAM



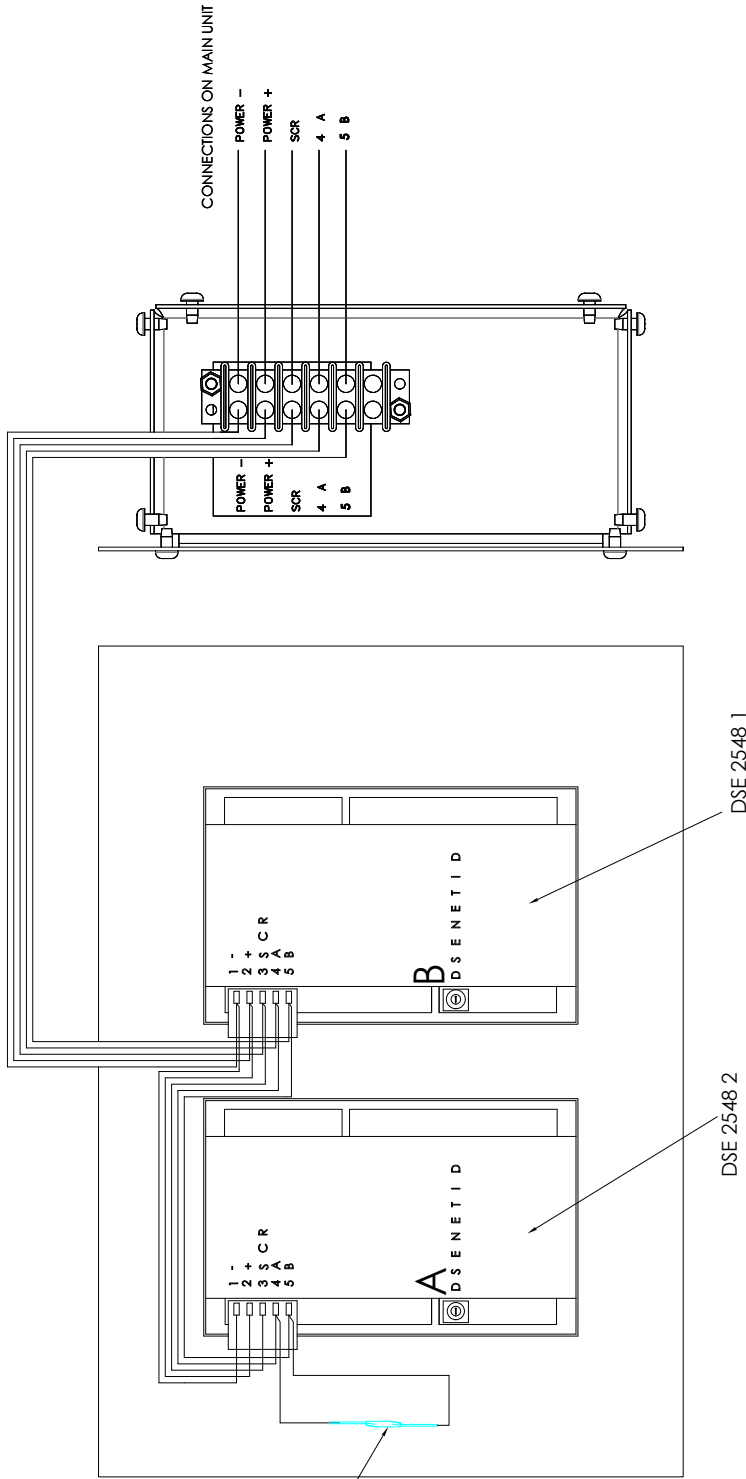
NOTE 1

AS A TERMINATING RESISTOR IS INTERNALLY FITTED TO THE HOST CONTROLLER, THE HOST CONTROLLER MUST BE THE FIRST UNIT ON THE DSEnet

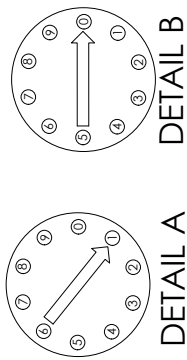
NOTE 2

A 120 OHM TERMINATION RESISTOR MUST BE FITTED TO THE LAST UNIT ON THE DSEnet

WIRING DIAGRAM



RESISTOR ASSEMBLY (62029-004) MUST BE INSTALLED BETWEEN TERMINALS 4 AND 5



TERMINAL BLOCK = T.B.
DSE 2548 2 = DSE 2
DSE 2548 1 = DSE 1