

*OPTIONAL ACCESSORIES*

*ANNUNCIATOR PANEL*



# DSE2548

## DSENET® OUTPUT EXPANSION MODULE

The DSE2548 is an LED expansion module that can be used with all DSENet® compatible control modules. The module has been designed to display a maximum of eight individual LED indications up to a maximum distance of 1 KM (0.6miles).

The DSE2548 is presented in a vertical enclosure. It includes an alarm sounder that is triggered when the host controller detects an alarm condition. The alarm can be muted directly from the DSE2548 using the front push button.

The DSE2548 includes individual LEDs for each channel and a 'Power On' LED that flashes when the link with the host controller is lost.

### ENVIRONMENTAL TESTING STANDARDS

#### ELECTRO-MAGNETIC COMPATIBILITY

BS EN 61000-6-2  
EMC Generic Immunity Standard for the Industrial Environment  
BS EN 61000-6-4  
EMC Generic Emission Standard for the Industrial Environment

#### ELECTRICAL SAFETY

BS EN 60950  
Safety of Information Technology Equipment, including Electrical Business Equipment

#### TEMPERATURE

BS EN 60068-2-1  
Ab/Ae Cold Test -30 °C  
BS EN 60068-2-2  
Bb/Be Dry Heat +70 °C

#### VIBRATION

BS EN 60068-2-6  
Ten sweeps in each of three major axes  
5 Hz to 8 Hz @ +/-7.5 mm,  
8 Hz to 500 Hz @ 2 gn

#### HUMIDITY

BS EN 60068-2-30  
Db Damp Heat Cyclic 20/55 °C @ 95% RH 48 Hours  
BS EN 60068-2-78  
Cab Damp Heat Static 40 °C @ 93% RH 48 Hours

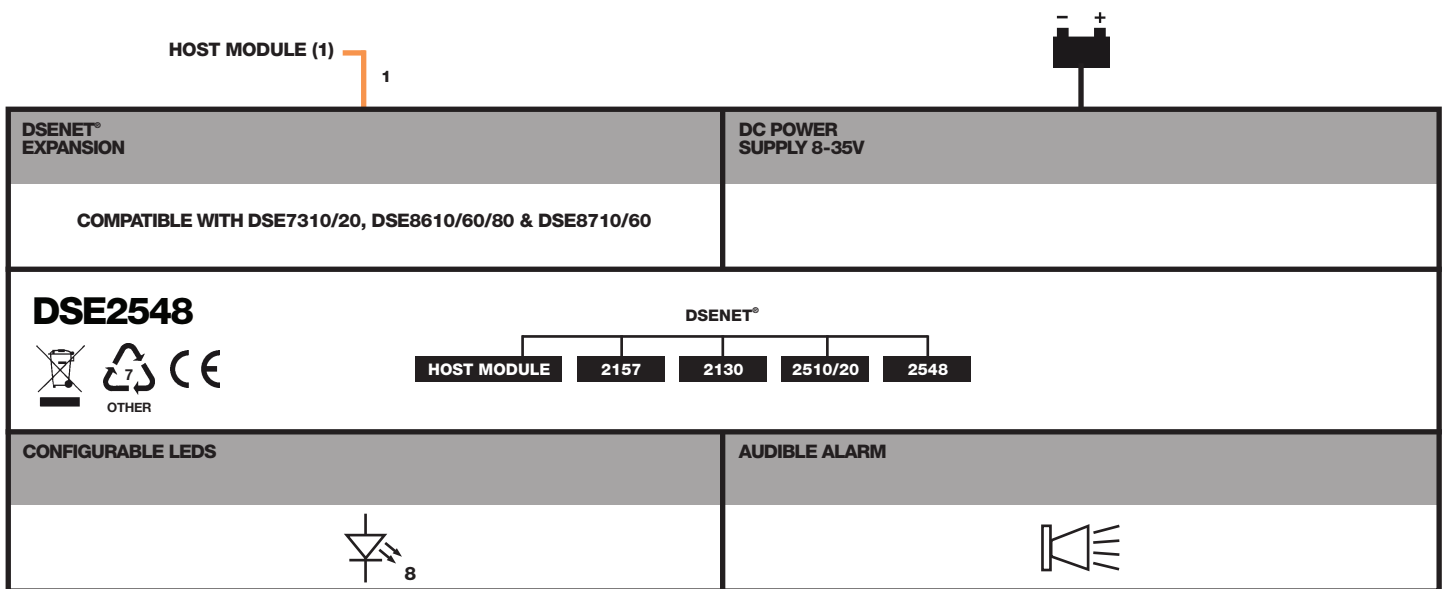
#### SHOCK

BS EN 60068-2-27  
Three shocks in each of three major axes  
15 gn in 11 ms

#### DEGREES OF PROTECTION PROVIDED BY ENCLOSURES

BS EN 60529  
IP65 - Front of module when installed into the control panel with the supplied sealing gasket.

## COMPREHENSIVE FEATURE LIST TO SUIT A WIDE VARIETY OF GEN-SET APPLICATIONS



# DSE2548

## DSENET<sup>®</sup> OUTPUT EXPANSION MODULE

### SPECIFICATION

#### DC SUPPLY

**CONTINUOUS VOLTAGE RATING**  
8 V to 35 V Continuous

#### CRANKING DROPOUTS

Able to survive 0 V for 50 mS, providing supply was at least 10 V before dropout and supply recovers to 5 V. This is achieved without the need for internal batteries. LEDs and backlight will not be maintained during cranking.

#### MAXIMUM OPERATING CURRENT

112 mA at 12 V, 53 mA at 24 V

#### MAXIMUM STANDBY CURRENT

74 mA at 12 V, 35 mA at 24 V

#### DIMENSIONS

##### OVERALL

180 mm x 116 mm x 42.7 mm  
7.07" x 4.57" x 1.68"

##### PANEL CUT-OUT

154 mm x 98 mm  
6.06" x 3.86"

##### MAXIMUM PANEL THICKNESS

8 mm  
0.3"



#### KEY FEATURES

- Eight configurable LEDs
- Works up to 1 KM (0.6 miles) from the host controller
- 10 modules can be linked together to one host controller

#### ID SWITCH

The rotary ID switch is used to select the address of the DSE2548 expansion module, as the host control module is capable of giving instructions to a number of DSE2548 expansion modules at the same time.

#### RELATED MATERIALS

##### TITLE

DSE2548 Installation Instructions  
DSE2548 Operator Manual

##### PART NO'S

053-032  
057-084

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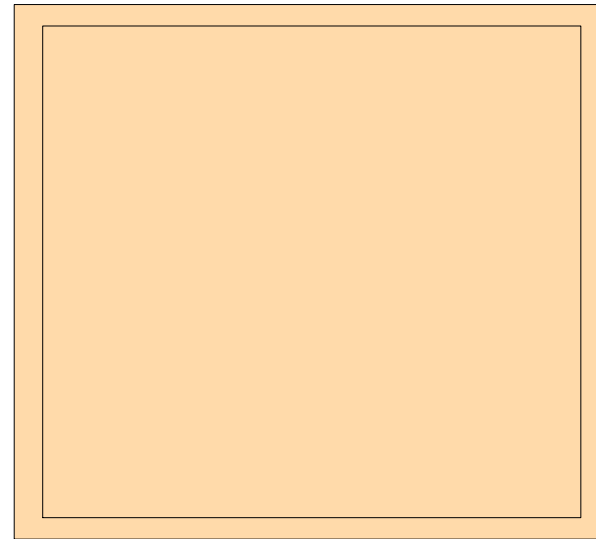
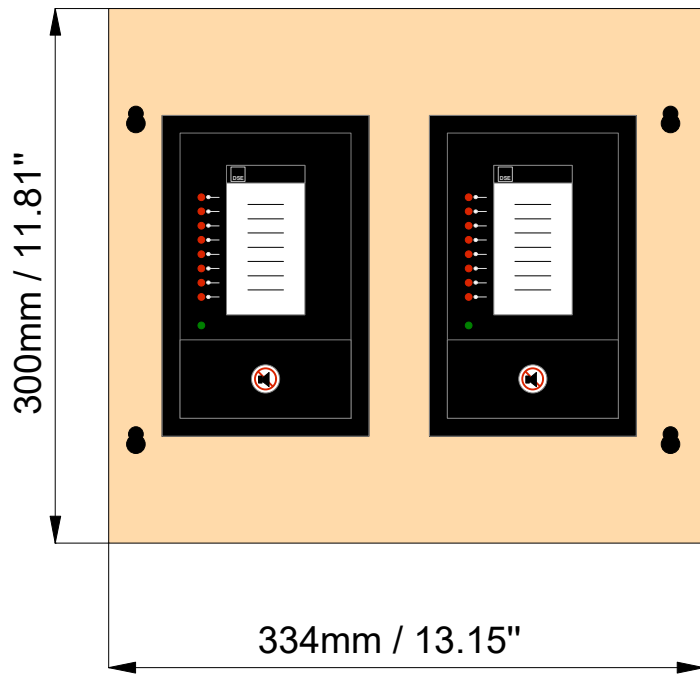
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CUSTOMER  
PROJECT NAME  
DRAWING NO  
REVISION NO  
ORDER NO

VOLTAGE (VAC)  
CONT. VOLTAGE  
FREQUENCY (Hz)  
PHASE

DATE  
DRAWN  
CHECKED  
APPROVED





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Approved	furkan.uzun		

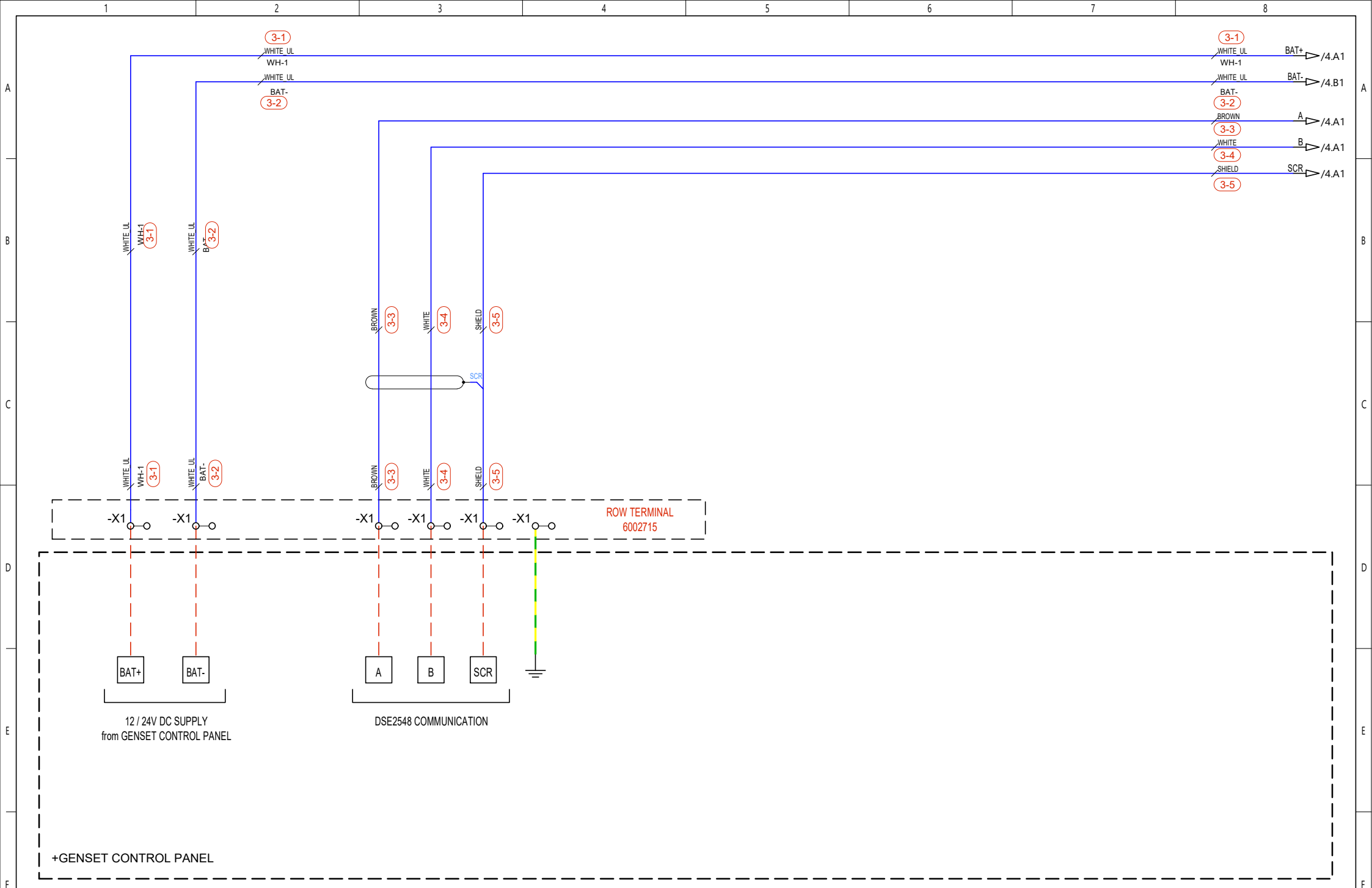
ALARM PANOSU

Order No	-
Drawing No	E3-220313703
Rev No	-

Page Description

PANEL VIEW

Function	=GEN
Location	+CP
Page	2/7



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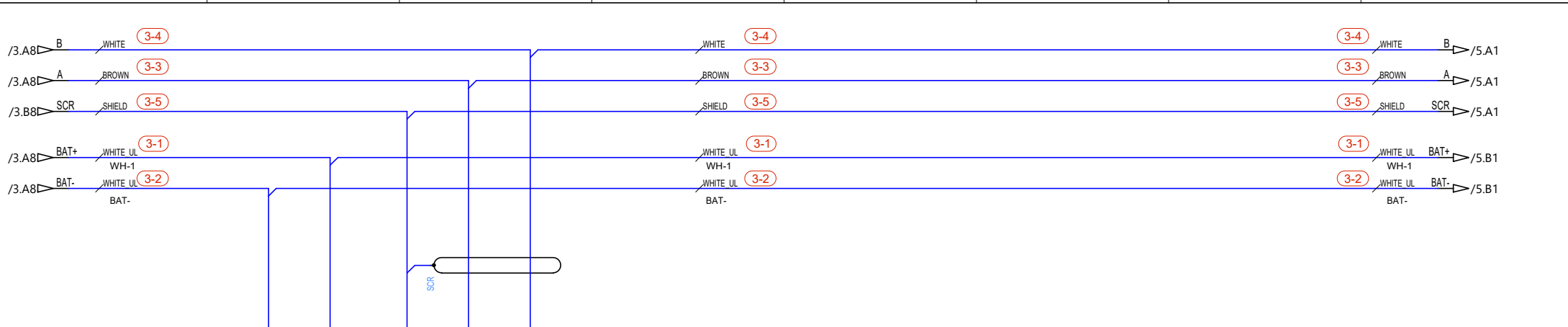
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ALARM PANOSU

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Page Description	INPUT SIGNAL CONTROL AND DSE 2548 COMMUNICATION
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Function	=GEN
Location	+CP
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Q1	Q2	Q3	Q4	Q5
-	+	SCR	A	B
DC SUPPLY		DSE NET		

**-DSE 2548-1**  
LED EXPANSION UNIT  
8 ALARM LIST  
/6.B3

- ALARM LIST**
- 1- FAIL TO START / OVER CRANK
  - 2- LOW COOLANT TEMPERATURE
  - 3- HIGH ENGINE TEMPERATURE PRE-ALARM
  - 4- HIGH ENGINE TEMPERATURE
  - 5- LOW OIL PRESSURE PRE ALARM
  - 6- LOW OIL PRESSURE
  - 7- LOW COOLANT LEVEL
  - 8-OVER SPEED



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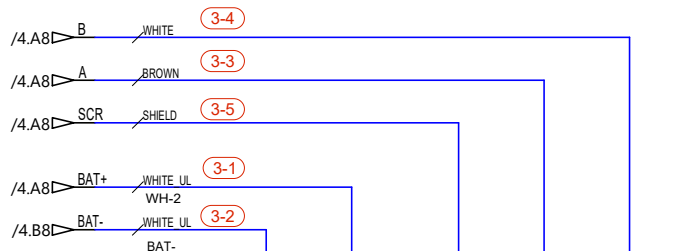
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ALARM PANOSU

Order No	-
Drawing No	E3-220313703
Rev No	-

Page Description	
DSE 2548 LED ALARM UNIT CONTROL DIAGRAM	

Function	=GEN
Location	+CP
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Q1
Q2
Q3
Q4
Q5

**ALARM LIST**

- 9- EPS SUPPLYING LOAD
- 10- LOW FUEL LEVEL
- 11- CONTROL SWITCH NOT IN AUTO
- 12- HIGH BATTERY VOLTAGE
- 13- LOW VOLTAGE IN BATTERY
- 14- BATTERY CHARGER AC FAILURE
- 15- COMMON ALARM
- 16-EMERGENCY STOP ACTIVATED

-
+

SCR
A
B

**-DSE 2548-2**  
 LED EXPANSION UNIT  
 8 ALARM LIST  
 /6.B7

DC SUPPLY

DSE NET



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Page Description	
DSE 2548 LED ALARM UNIT CONTROL DIAGRAM	

Function	=GEN
Location	+CP
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DSE 2548-1

DSE 2548-2

