

# DSE330

## AUTO TRANSFER SWITCH CONTROL MODULE

### FEATURES



The DSE330 is an Automatic Transfer Switch Controller. The DSE330 will monitor the voltage and frequency of the incoming AC supply from two different sources, which could be from both generator or mains (utility), or a combination of both. The module will monitor S1 (source 1) and in the event of a failure will issue a start command to S2 (source 2).

Once S2 is available and producing an output within limits, the module will control the transfer device and switch the load from S1 to S2. Once the S1 supply returns to within limits, the module will command a load return to S1 and shut down S2.

Various timing sequences are available to prevent nuisance starting on minor supply breaks. Configurable digital inputs and outputs make the DSE330 fully flexible to suit a wide variety of applications.

The module can be easily configured using the DSE Configuration Suite PC Software. Where there is no DC supply a DSE160 self seeking power supply is required.

The DSE330 also supports many topologies, and includes a clear back-lit LCD display, showing system operational status and

warnings.

### 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

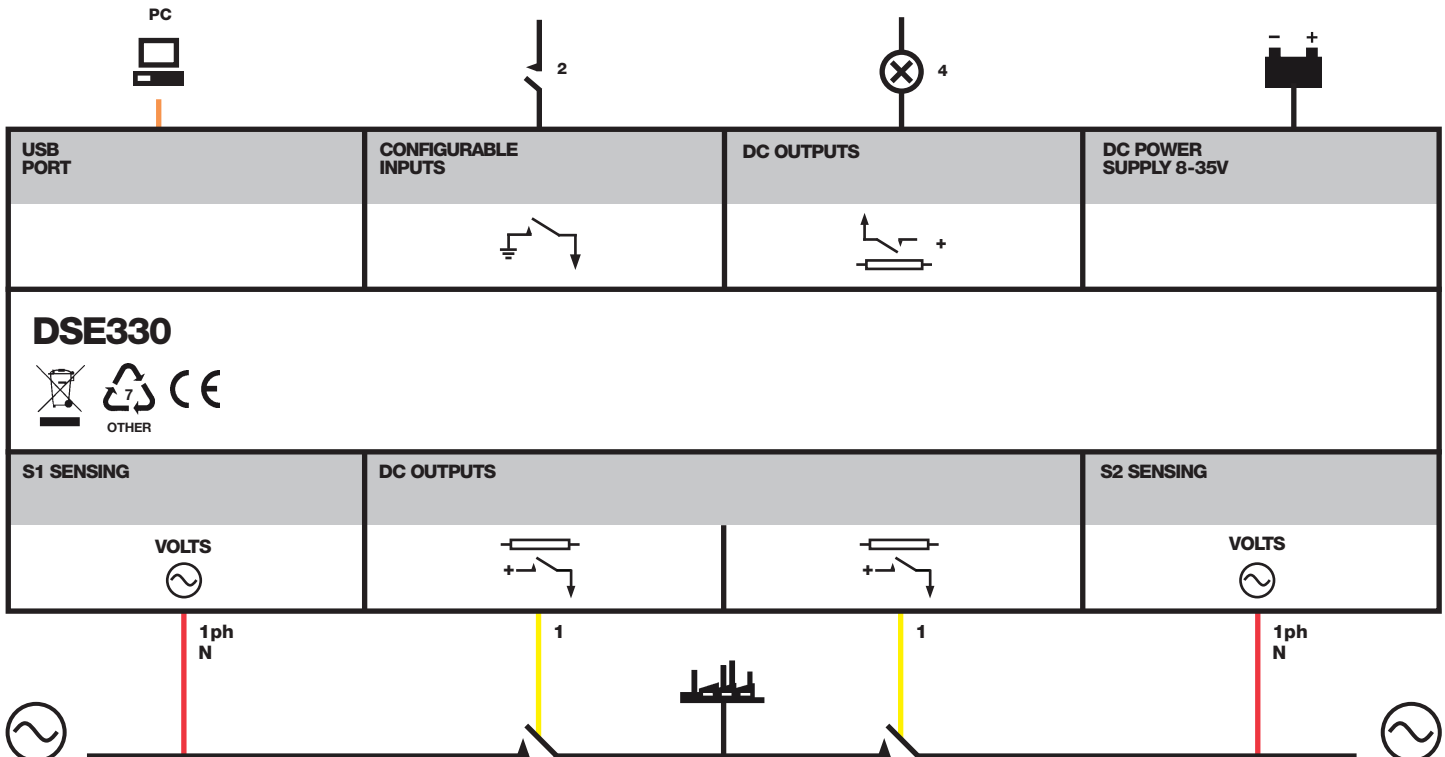
#### SHOCK

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 optional sealing gasket.

## COMPREHENSIVE FEATURE LIST TO SUIT A WIDE VARIETY OF ATS APPLICATIONS



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### FEATURES



### KEY FEATURES

- Configurable inputs (2)
- Configurable outputs (6)
- Icon or English text display
- LED indicator
- Front panel/PC configuration
- Source 1/Source 2 control
- Configurable timers
- Start inhibit
- Load inhibit
- Manual restore to S1
- Supports multiple topologies
- Automatic switch-over between supplies

- Rotary ATS configuration
- Single event scheduler
- Single phase display

### KEY BENEFITS

- Source 1/Source 2 provides total flexibility for the application of the product
- Icon and English text display for use across global markets
- Fully automatic and switch-over control minimises the effects of power disruptions

- User friendly set-up and button layout
- DSE Configuration Suite PC Software compatibility for remote control and monitoring

### 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

61 mA at 12 V, 62 mA at 24 V

#### MAXIMUM STANDBY CURRENT

50 mA at 12 V, 51 mA at 24 V

#### OUTPUTS

**AUXILIARY OUTPUTS A,B,C,D,E & F**  
2 A DC at supply voltage

#### S1 & S2

**VOLTAGE RANGE**  
15 V to 333 V AC (L-N)

#### FREQUENCY RANGE

3.5 Hz to 75 Hz

#### DIMENSIONS

##### OVERALL

98 mm x 79 mm x 40 mm  
3.9" x 3.1" x 1.6"

##### PANEL CUT-OUT

80 mm x 68 mm  
3.1" x 2.7"

##### MAXIMUM PANEL THICKNESS

8 mm  
0.3"

##### OPERATING TEMPERATURE RANGE

-30°C to +70°C

##### STORAGE TEMPERATURE RANGE

-40°C to +80°C

### RELATED MATERIALS

#### TITLE

DSE330 Installation Instructions  
DSE330 Operators Manual  
DSE330 Configuration Suite Software Manual  
DSE160 Self Seeking Power Supply Data Sheet  
DSE160 Operator Manual

#### PART NO'S

053-130  
057-148  
057-150  
055-076  
057-108

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