

# DSE705/4130

## AUTO TRANSFER SWITCH

### FEATURES



The DSE705 and DSE4130 are Transfer Switch Control Modules that have been designed to monitor the mains (utility) supply.

When the mains (utility) power fails, the module will send a start request to the generator control unit. When the generator is up and running the module transfers the load across. When the mains (utility) returns, the module transfers the load back and removes the start command. The generator should then begin its shutdown procedure.

The modules can be configured to follow the users' pre-set start and stop sequences.

The DSE4130 case includes a closed back.

### 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

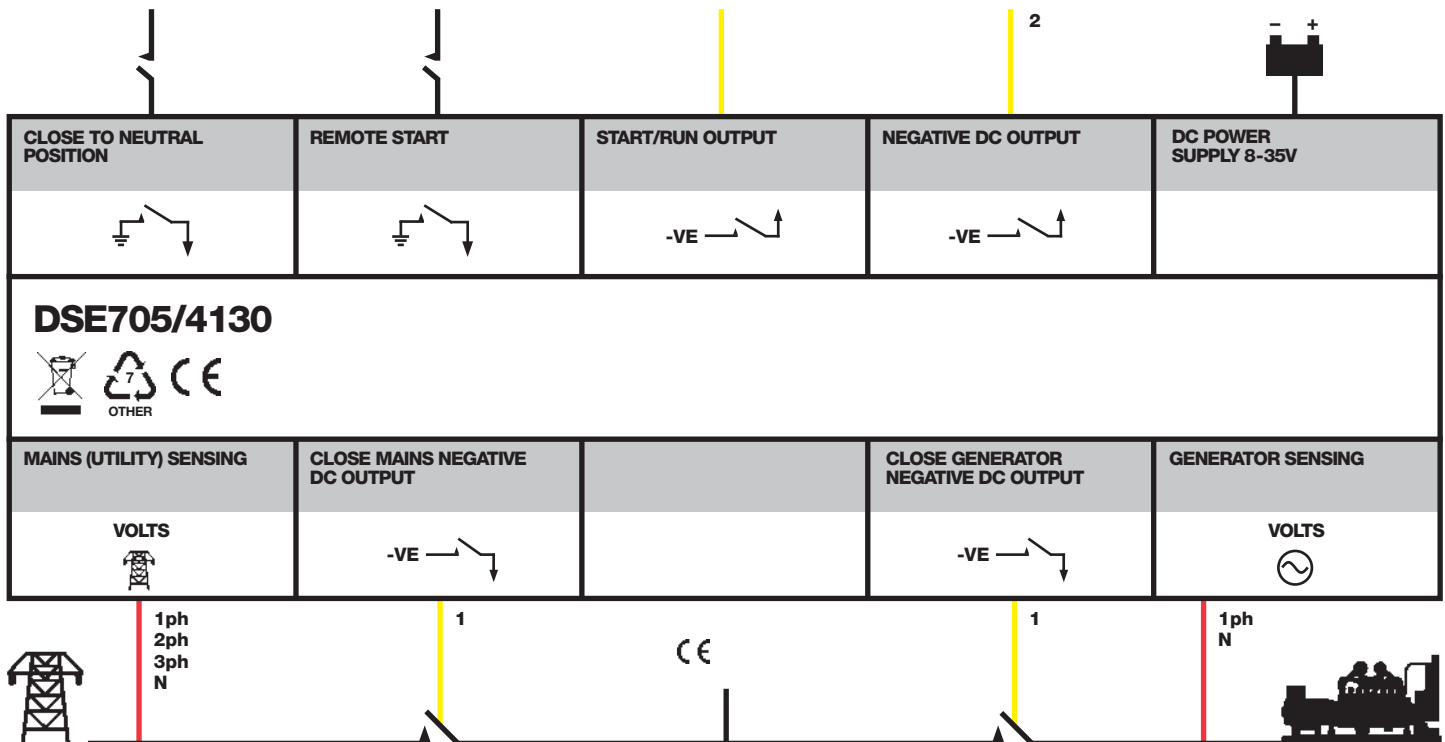
#### SHOCK

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 sealing gasket (to be ordered separately).

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



ALL OUTPUTS ARE -VE SWITCHING SOLID STATE

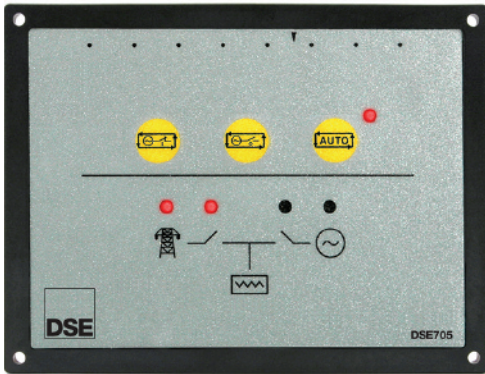
# DSE705/4130

## AUTO TRANSFER SWITCH

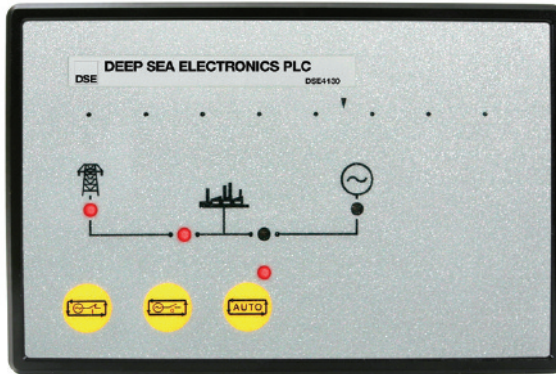
### FEATURES



DSE705



DSE4130



### KEY FEATURES

- Automatic mains (utility) supply monitoring
- Load changeover control
- Manual start
- Protected Solid State (PSS) outputs
- Front panel mounting
- Front panel programming
- LED indicators
- Configurable timers
- Single/three phase mains (utility) sensing
- Remote start input

### KEY BENEFITS

- Transfers between mains (utility) and generator power
- On-site module configuration to match user requirements

### SPECIFICATION

#### DC SUPPLY

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

#### CRANKING DROPOUTS

Able to survive 0V for 50mS, providing supply was at least 10 V before dropout and supply recovers to 5 V. This is achieved without the need for internal batteries.

#### MAXIMUM OPERATING CURRENT

50 mA at 12 & 24 V

#### MAXIMUM STANDBY CURRENT

DSE705  
10 mA at 12 V & 24 V

DSE4130

15 mA at 12 V & 24 V

#### ALTERNATOR INPUT RANGE

75 V to 333 V AC absolute maximum

#### ALTERNATOR INPUT FREQUENCY

50Hz – 60Hz at rated engine speed  
(minimum:75 V AC L-N)

#### OUTPUTS

##### START & RUN OUTPUT

1.2 Amp DC at supply voltage. Switches to battery negative when active

##### CLOSE GEN/MAINS (UTILITY)

##### CONTROL OUTPUTS

1.2 Amp DC at supply voltage. Switches to battery negative when active

##### AUXILIARY OUTPUTS

1.2 Amp DC at supply voltage. Switches to battery negative when active

#### DIMENSIONS

##### DSE705 OVERALL

165 mm x 125 mm x 29 mm  
6.5" x 4.9" x 1.2"

##### DSE705 CUT-OUT

149 mm x 109 mm  
5.9" x 4.3"

##### DSE4130 OVERALL

171 mm x 115 mm x 49 mm  
6.75" x 4.5" x 2"

##### DSE4130 CUT-OUT

154 mm x 98 mm  
6.1" x 3.9"

#### STORAGE TEMPERATURE RANGE

-40 °C to +85 °C

### RELATED MATERIALS

#### TITLE

DSE705 Installation Instructions  
DSE705 Operators Manual  
DSE4130 Installation Instructions  
DSE4130 Operators Manual

#### PART NO'S

053-037  
057-044  
053-024  
057-024

### DEEP SEA ELECTRONICS PLC UK

Highfield House, Hunmanby Industrial Estate, Hunmanby YO14 0PH  
**TELEPHONE** +44 (0) 1723 890099 **FACSIMILE** +44 (0) 1723 893303  
**EMAIL** sales@deepseapl.com **WEBSITE** www.deepseapl.com

### DEEP SEA ELECTRONICS INC USA

3230 Williams Avenue, Rockford, IL 61101-2668 USA  
**TELEPHONE** +1 (815) 316 8706 **FACSIMILE** +1 (815) 316 8708  
**EMAIL** sales@deepseausa.com **WEBSITE** www.deepseausa.com