DSEAts

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

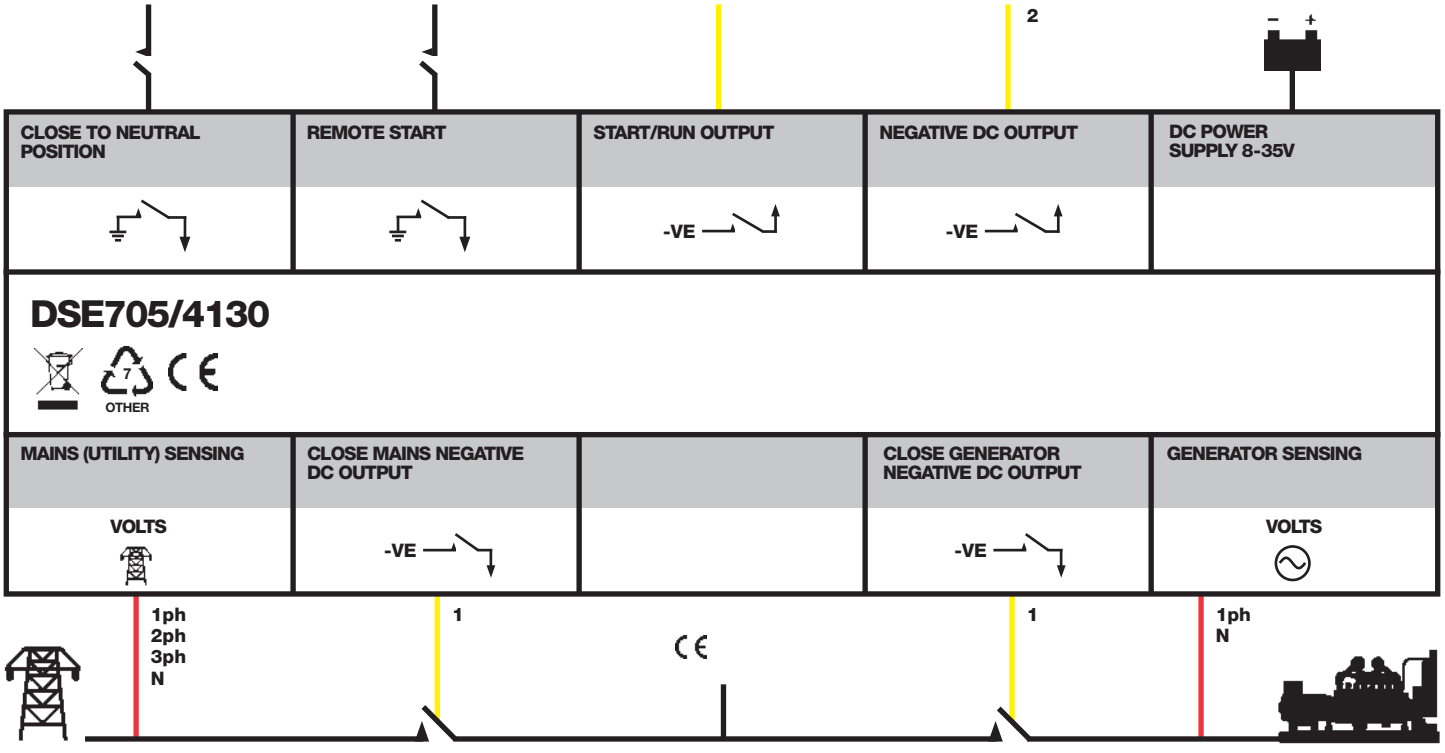
VIBRATION
BS EN 60068-2-6
Ten sweeps in each of three major axes
5 Hz to 8 Hz @ +/-7.5 mm,
8 Hz to 500 Hz @ 2 gn

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 seperately).

COMPREHENSIVE FEATURE LIST TO SUIT A WIDE VARIETY OF ATS APPLICATIONS



ALL OUTPUTS ARE -VE SWITCHING SOLID STATE

ISSUE 3

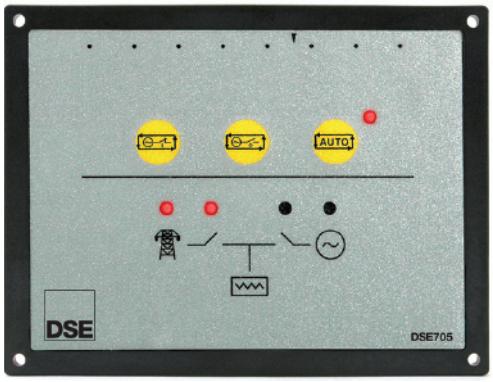
DSEAts

DSE

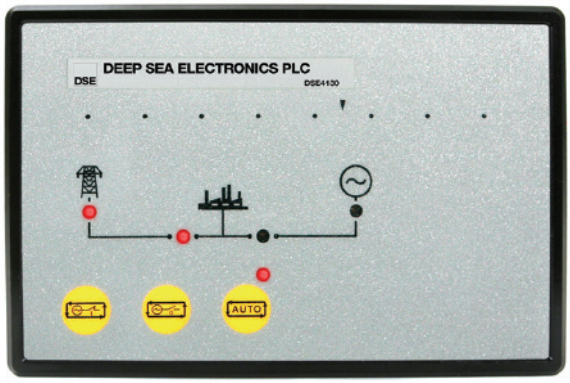
DSE705/4130
AUTO TRANSFER SWITCH

FEATURES

DSE**705**



DSE**4130**



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

RELATED MATERIALS

TITLE	PART NO'S
DSE705 Installation Instructions	053-037
DSE705 Operators Manual	057-044
DSE4130 Installation Instructions	053-024
DSE4130 Operators Manual	057-024

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

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