



DSE3110

MANUAL & AUTO START CONTROL MODULE

FEATURES



The DSE3110 can be utilised as a Manual or Auto Start Module for single gen-set applications or engine only applications. The module has been designed to work with electronic and non-electronic engines, providing advanced engine monitoring and protection features.

The DSE3110 includes a back-lit icon LCD display which clearly shows the status of the engine at all times.

The module monitors engine speed, frequency, voltage and engine run hours and also displays the warning and shutdown status.

The module includes fixed and

flexible outputs as well as configurable inputs making this product ideal for a wide variety of applications. The module can either be programmed using the front panel or by using the DSE Configuration Suite PC software.

The module is available in two variants:

CAN – For use with electronic engines only.

 Optional frequency (Hz) sensing from main AC alternator for genset applications. **MPU/ALT.** – For use with nonelectronic engines only (magnetic pick-up/alternator sensing).

- Optional frequency (Hz) sensing from main AC alternator for genset applications.
- Optional Magnetic Pickup speed sensing.

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

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

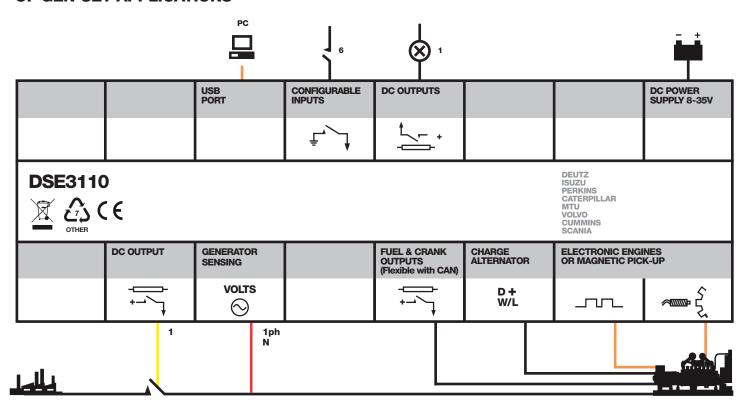
BS EN 60068-2-27 Three shocks in each of three major axes 15 gn in 11 mS

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





















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KEY FEATURES

- Back-lit icon LCD display
- Front panel editing
- LED and LCD alarm indication
- Power Save mode
- CAN and Magnetic Pick-up/Alt. versions available (specify on ordering)
- PC configurable
- 6 Digital inputs
- 4 Outputs (2 configurable on Magnetic Pick up/Alt., 4 configurable on CAN version)
- Configurable timers and alarms
- Alternative configuration
- Remote Start input

- · Generator voltage display
- Generator frequency display
- Battery voltage display
- Engine speed display
- Hours counter
- Engine pre-heat
- Comprehensive shutdown or warning on fault condition

KEY BENEFITS

- Tamper-proof hours counter provides accurate information for monitoring and maintenance periods
- Multiple engine parameters are monitored simultaneously

- Module can be configured to suit individual applications
- Suitable for engine only applications
- Compatible with a wide range of CAN engines
- Uses DSE Configuration Suite PC software for simplified configuration
- IP65 rating (with optional gasket) offers increased resistance to water ingress
- Licence-free PC software

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

CHARGE FAIL/ EXCITATION

8 V to 35 V fixed power source 2.5 W

NOMINAL STANDBY CURRENT

23 mA at 12 V, 18 mA at 24 V

MAXIMUM OPERATING CURRENT

35 mA at 12 V, 30 mA at 24 V

OUTPUTS

OUTPUT A (FUEL)

2 A DC at supply voltage

OUTPUT B (START)

2 A DC at supply voltage

AUXILIARY OUTPUTS C,D

2 A DC at supply voltage

GENERATOR

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

FREQUENCY RANGE

3.5 Hz to 75 Hz

MAGNETIC PICK UP

VOLTAGE RANGE

FREQUENCY RANGE

10,000 Hz (max)

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

RELATED MATERIALS

TITLE

DSE7310 Installation Instructions DSE7320 Installation Instructions DSE7200/7300 Quick Start Guide DSE7200/7300 Operator Manual DSE7200/7300 Configuration Suite PC Manual

PART NO'S

053-028 053-029 057-101 057-074 057-077

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