

DSE8680

SYNCHRONISING BUS-TIE CONTROL MODULE

FEATURES



The DSE8680 module is designed to control a bus-tie breaker. The module manages the synchronising and check-sync across the breaker automatically, via the DSE MSC (Multi-set Communications) Link, when opening or closing the bus-tie breaker.

With all communication ports capable of being active at the same time, the DSE8680 is ideal for a wide variety of demanding load share applications.

The DSE8680 module has been designed to work with the DSE8x10 and DSE8x60 Load Share control modules which support up to sixteen DSE8680s with no DSE8x60 or up to two DSE8680s with one to fourteen DSE8x60s. This provides a standalone, fully integrated solution, without the need for PLC.

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
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
5Hz to 8Hz @ +/-7.5mm, 8Hz to 500Hz @ 2gn

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

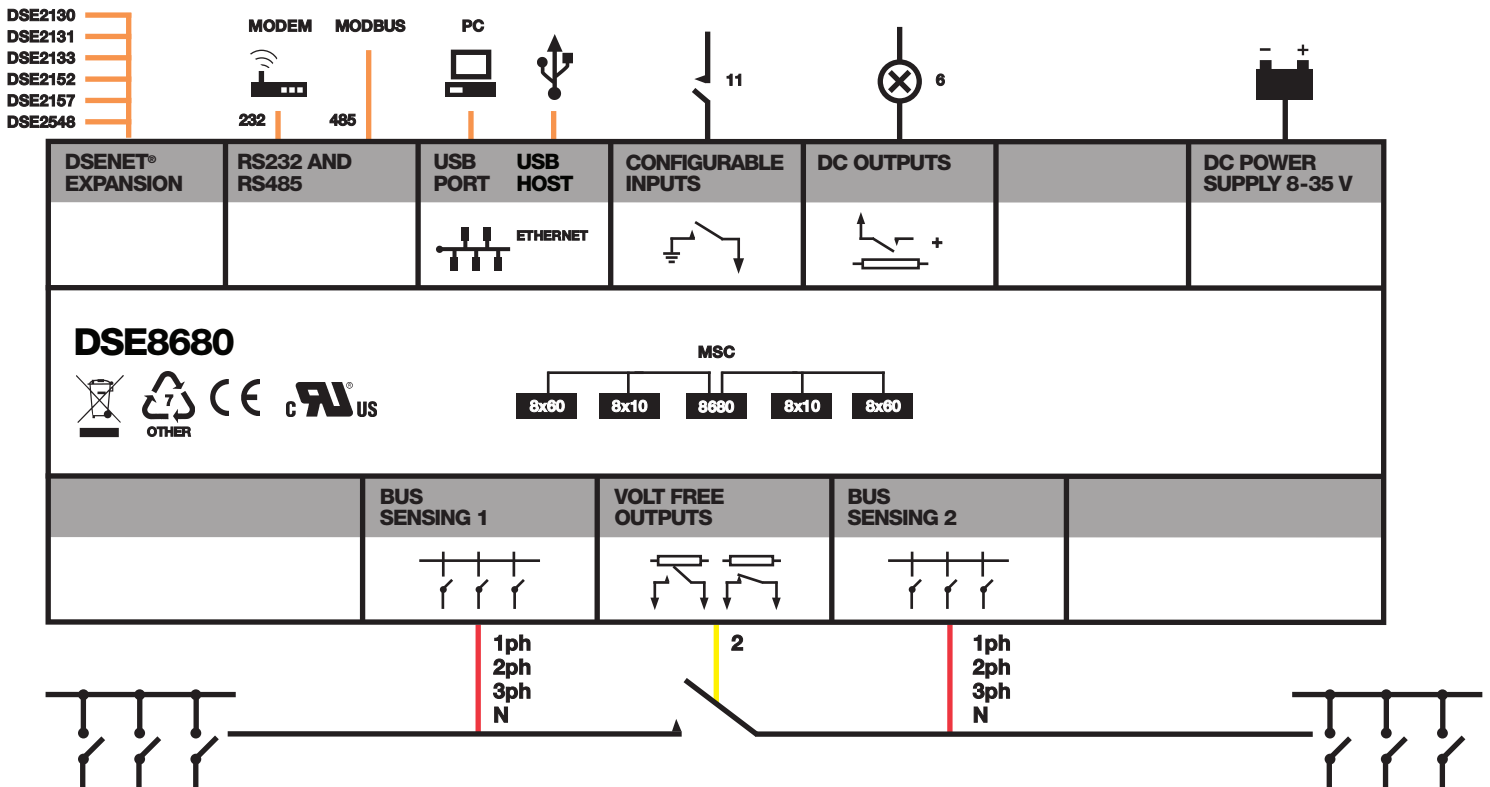
SHOCK

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

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

- Comprehensive synchronising & loadshare capabilities
- Connects to two DSE MSC links, one for 'bus 1' and another for 'bus 2'
- 4-Line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- Customisable status screens
- Power save mode
- 11 configurable inputs
- 8 configurable outputs
- Configurable timers and alarms
- Configurable event log (250)
- Integral PLC editor
- Easy access diagnostic page
- LED and LCD alarm indication
- USB connectivity
- Backed up real time clock
- Fully configurable via DSE Configuration Suite PC software
- Configurable display languages
- Remote SCADA monitoring via DSE Configuration Suite PC software

- User selectable RS232 and RS485 & Ethernet communications
- Modbus RTU/TCP
- Configurable Gencomm pages
- Advanced SMS messaging (additional external modem required)
- Open and close capability via SMS messaging
- Additional display screens to help with modem diagnostics
- DSENet[®] expansion compatible
- Data logging and trending

KEY BENEFITS

- Automatic control of the DSE MSC link when the breaker is opened/closed for synchronising
- Instrumentation shows the status and measurements of both buses
- Built-in RS232, RS485 & Ethernet can be used at the same time
- High number of inputs and outputs
- Worldwide Language Support

- Compatible with DSE86xx, DSE87xx & DSE88xx series of modules
- 132 x 64 pixel ratio display for clarity
- Real-time clock provides accurate event logging
- Ethernet communications, provides advanced remote monitoring at low cost
- Can be integrated into building management systems (BMS)
- Increased input and output expansion capability via DSENet[®]
- Licence-free PC software
- IP65 rating (with supplied gasket) offers increased resistance to water ingress
- PLC editor allows user configurable functions to meet specific application requirements

SPECIFICATION

DC SUPPLY

CONTINUOUS VOLTAGE RATING
8 V to 35 V Continuous

MAXIMUM OPERATING CURRENT
150 mA at 12 V, 80 mA at 24 V

MAXIMUM STANDBY CURRENT
50 mA at 12 V, 30 mA at 24 V

BUS 1 AND BUS 2 VOLTAGE RANGE
15 V to 333 V AC (L-N)

FREQUENCY RANGE
3.5 Hz to 75 Hz

OUTPUTS

OUTPUTS C & D
8 A at 250 V AC (Volt free)

AUXILIARY OUTPUTS E,F,G,H,I & J
2 A DC at supply voltage

DIMENSIONS

OVERALL
240 mm x 172 mm x 57 mm
9.4" x 6.8" x 2.2"

PANEL CUTOUT

220 mm x 160 mm
8.7" x 6.3"

MAXIMUM PANEL THICKNESS

8 mm
0.3"

OPERATING TEMPERATURE RANGE

-30 °C to +70 °C

STORAGE TEMPERATURE RANGE

-40 °C to +85 °C

RELATED MATERIALS AND OTHER LOAD SHARE & SYNCHRONISING PRODUCTS

TITLE	PART NO'S	TITLE	PART NO'S
DSE8680 Installation Instructions	053-082	DSE8610 Data Sheet	055-083
DSE8680 Operator Manual	057-130	DSE8660 Data Sheet	055-086
DSE8680 Configuration Suite PC Software Manual	057-131	DSE8700 Series Data Sheet	055-090
		DSE8810 Data Sheet	055-116
		DSE8860 Data Sheet	055-139

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