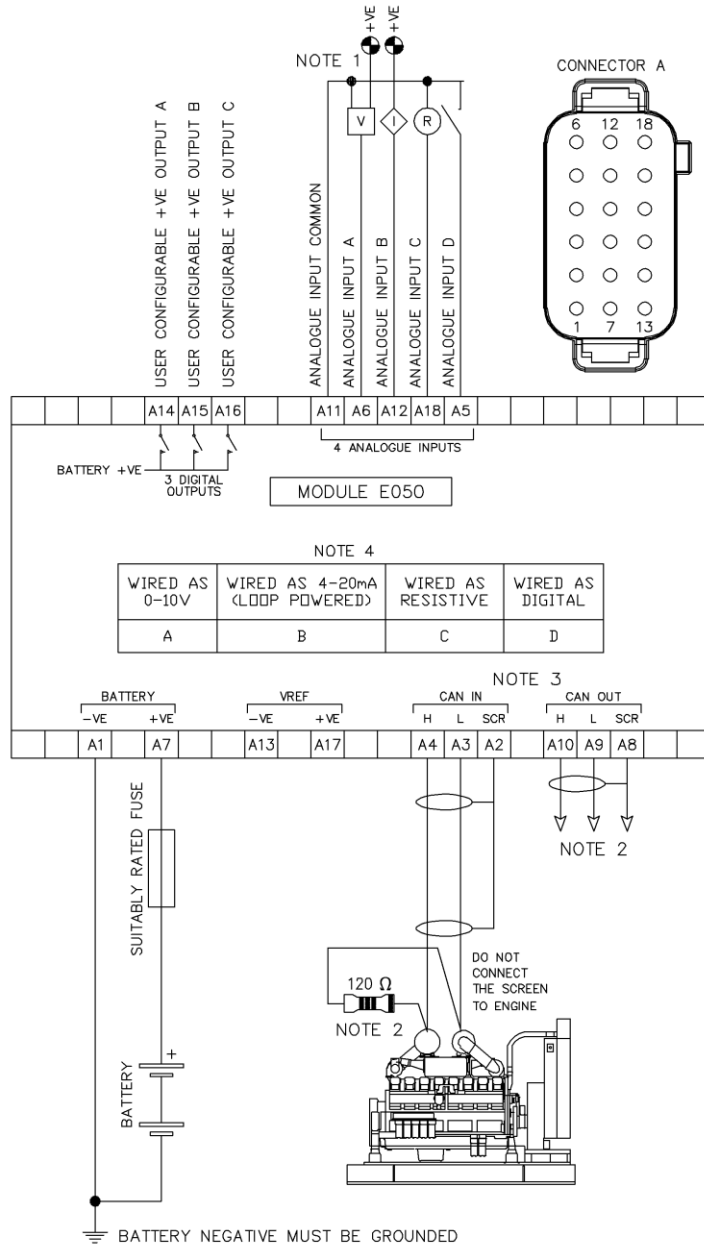




**DEEP SEA ELECTRONICS**  
**DSEE050 Installation Instructions**

These instructions are intended as a quick guide only. For complete instructions and specifications, refer to DSE publication 057-300 *DSEE050 Operator Manual* available from [www.deepseaelectronics.com](http://www.deepseaelectronics.com).

**NOTE:** Cables / wires must be installed as indicated to prevent liquid (water) entering the device. Part number of suitable connectors / blanking plugs are given overleaf and detailed in DSE publication 057-300 *DSEE050 Operator Manual* available from [www.deepseaelectronics.com](http://www.deepseaelectronics.com).



NOTE 1. ANALOGUE INPUT COMMON MUST NOT BE GROUNDED, IT IS LINKED INTERNALLY TO TERMINAL A1.

NOTE 2. 120 Ω TERMINATING RESISTOR MAY BE REQUIRED EXTERNALLY, SEE EXTERNAL EQUIPMENT MANUFACTURERS LITERATURE FOR FURTHER DETAILS.

NOTE 3. CAN IN AND CAN OUT ARE LINKED INTERNALLY.

NOTE 4. ANALOGUE INPUTS CAN BE CONFIGURED AS EITHER A DIGITAL INPUT, RESISTIVE INPUT, 0-10V INPUT, 4-20mA INPUT, OR ANY COMBINATION OF THE ABOVE.

**CONFIGURATION**

**NOTE:** DSEE050 is supplied with Factory (Default) Settings to suit most J1939 compatible engine ECUs. Due to the configurable nature of the device this is subject to change as required by the supplier. Contact supplier or consult the device configuration source for full details of the configured instrumentation.

**NOTE:** For details of module configuration, refer to DSE Publication: 057-299 *DSEE050 Configuration Suite PC Software Manual*.

For configuration of the device, a PC USB to CAN Interface is required. Detailed below. The device driver is supplied with the interface and is further available at the website listed in the table below.

Manufacturer	Part Number	Description
PEAK-System Technik GmbH <a href="https://www.peak-system.com/">https://www.peak-system.com/</a>	IPEH-002021	PCAN-USB
	IPEH-002022	PCAN-USB Opto-Isolated

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## DIMENSIONS

Description	Specification
Overall Dimensions (Height x Width x Depth)	112.5 mm x 115.0 mm x 49.0 mm (4.43 " x 4.53 " x 1.93 ")
Mounting Type	Fascia Mount
Overall Weight	<1 kg (2.2 lb)
Panel Cut-Out diameter	82 mm (3.23 ")
Panel Cut-Out Flat Side Dimension	76.0 mm (2.99 ")
Fascia Tightening Torque to prevent distortion of the sealing gasket and subsequent seal failure / mechanical damage to the controller.	8 Nm Maximum (5.9 ft. lb Maximum)

## CONNECTORS, HARNESSES AND SPARE PARTS

Description	DSE Part	Manufacturer Part	Manufacturer
DSEE050 Connector A	007-850	DT16-18SA-K004	TE / Deutsch
Connector Pin Crimp (0.5 mm <sup>2</sup> to 1.0 mm <sup>2</sup> )	N/A	0462-201-16	TE
Connector Pin Crimp (2 mm <sup>2</sup> )		0462-209-16	TE
DSEE050 Connector Harness Kit	016-176	N/A	DSE
DSEE050 Connector Configuration Harness.	016-177	N/A	DSE
Pin Blank Inserts (Seals unused connector pins)	N/A	114017	TE
Belden 9841 (CAN Cable)	016-030	9841	Belden
PCAN-USB PC Configuration Interface	N/A	IPEH-002021 or IPEH-002022	PEAK-System Technik GmbH
Rear Case Ring Nut	020-1058-01	N/A	DSE

## REQUIREMENTS FOR UL CERTIFICATION

Specification	Description
Conductors	<ul style="list-style-type: none"> <li>Conductor protection must be provided in accordance with NFPA 70, Article 240</li> <li>Low voltage circuits (35 V or less) must be supplied from the engine starting battery or an isolated secondary circuit.</li> <li>The communication, sensor, and/or battery derived circuit conductors shall be separated and secured to maintain at least ¼" (6 mm) separation from the generator and mains connected circuit conductors unless all conductors are rated 600 V or greater.</li> </ul>
Communication Circuits	<ul style="list-style-type: none"> <li>Must be connected to communication circuits of UL Listed equipment</li> </ul>
DC Output Pilot Duty	<ul style="list-style-type: none"> <li>0.5 A</li> </ul>
Mounting	<ul style="list-style-type: none"> <li>Suitable for flat surface mounting in Type 1 Enclosure Type rating with surrounding air temperature -22 °F to +158 °F (-30 °C to +70 °C)</li> <li>Suitable for pollution degree 2 environments</li> </ul>
Operating Temperature	<ul style="list-style-type: none"> <li>-22 °F to +158 °F (-30 °C to +70 °C)</li> </ul>

## DIMENSIONS AND PANEL CUTOUT DIAGRAM

