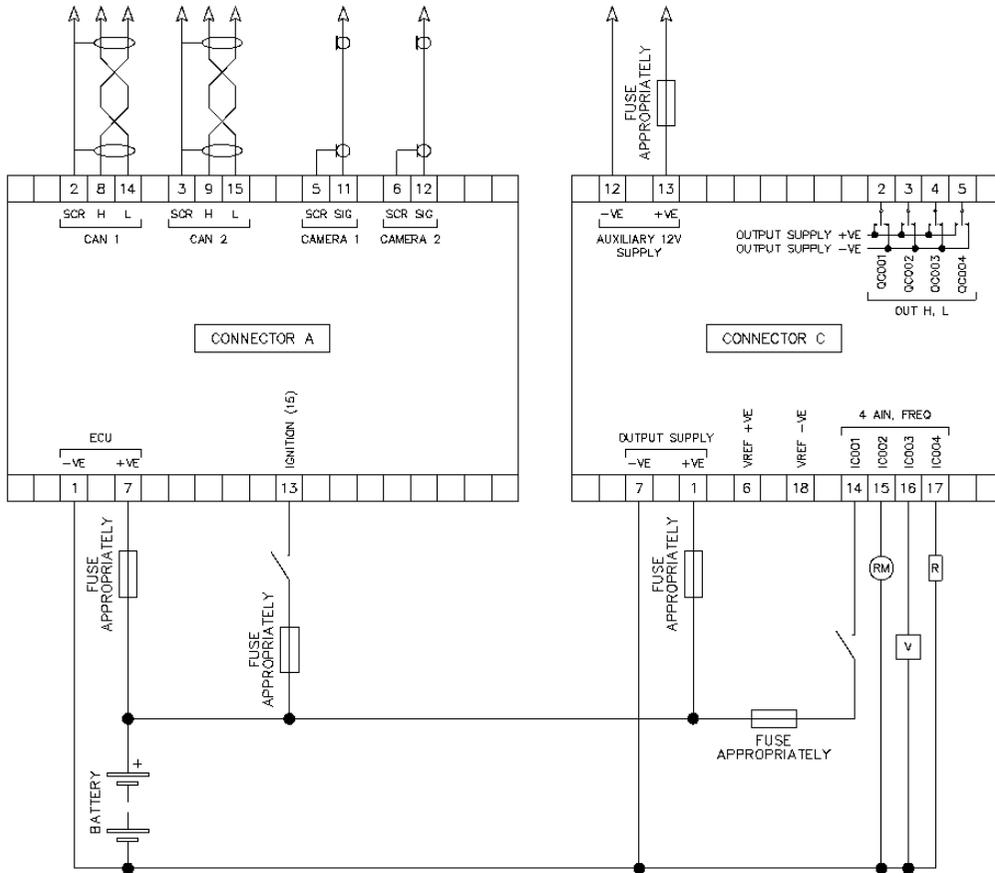


TYPICAL CONNECTIONS



FUSING

Select fuses appropriately to protect the circuits connected to the device's outputs.

Pin	Description	Comments	Recommended Fuse Size
A7	ECU Supply	Supplies M870 CPU	3 A Max
A13	Ignition (15)		1 A Max
C1	Output Supply	Supplies Outputs QC001 (Pin C2), QC002 (Pin C3), QC003 (Pin C4), QC004 (Pin C5).	10 A Max
C13	Auxiliary Supply Output	Used to Supply External Devices Internally Protected From Overcurrent.	500 mA Max



DEEP SEA ELECTRONICS PLC M870 Installation Instructions

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These instructions are intended as a quick guide only. For complete instructions and specifications, refer to DSE publication 057-246 *M870 Operator Manual* available from www.deepseapl.com.

NOTE: Cables / wires must be installed as indicated by the manufacturer to prevent water entering the device. Part number of suitable connectors are detailed in DSE publication 057-246 *M870 Operator Manual* available from www.deepseapl.com.

NOTE: Interference coupling must be avoided by correctly handling unused cable cores.

NOTE: To ensure IP67 rating the supplied M12 protection plugs must be installed in both the USB and Ethernet interfaces when not in use.

NOTE: To ensure the protection of the device against electrical interference and the safe function of the device, the rear heatsink earth point must be connected to the ground of the vehicle / machine.

NOTE: Software and associated Device Descriptors are available from www.deepseapl.com.

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DIMENSIONS

Description	Specification
Overall Dimensions (Height x Width x Depth)	278 mm x 171 mm x 81 mm (10.94 " x 6.72 " x 3.21 ")
Overall Weight	<2 kg (<4.4 lb)
Mounting Type	Mounting Bolts or RAM Mount.
Fascia Mounting Holes	8 (Eight) Holes Suitable for M5 Bolts (0.3 " holes)
Fascia Mounting Hole Centres	See Dimensions Diagram
Panel Cut-out	231 mm x 133 mm (9.09 " x 5.24 ")
Fascia Mounting Bolt Material Recommendation	Steel or Stainless Steel
Fascia Mounting Bolt Tightening Torque	1.2 Nm Maximum (0.6 ft. lb Maximum)
RAM Mounting Holes	Suitable for M5 Bolts (0.3 " Holes)
RAM Mounting Hole Centres	38.1 mm x 30.2 mm (1.50 " x 1.19 ")
RAM Mounting Bolt Material Recommendation	Steel or Stainless Steel
RAM Mounting Bolt Tightening Torque	4 Nm Maximum (2.95 ft. lb Maximum)

CONNECTORS, HARNESSES AND SPARE PARTS

Description	DSE Part	Manufacturer Details	
M870 Connectors	007-850 007-851	DT16-18SA-K004 DT16-18SC-K004	TE / Deutsch
Connector Pin Crimp (0.5 mm ² to 1.0 mm ²)	N/A	0462-201-16	TE
Connector Pin Crimp (2 mm ²)		0462-209-16	TE
M870 Connector Harness Kit (Set of 2)	016-167	N/A	DSE
M12 to Ethernet Cable	016-160	VS-M12MS-IP20-93R-L1/2	Phoenix
M12 to USB Cable	016-161	N/A	DSE
Belden 9841 (CAN Cable)	016-030	9841	Belden
Panel Mounting Sealing Gasket	020-579	N/A	DSE

DIMENSIONS DIAGRAM

