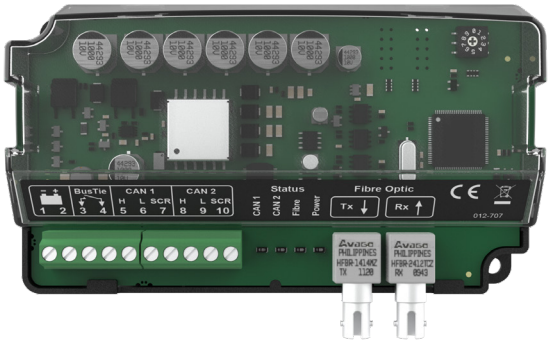
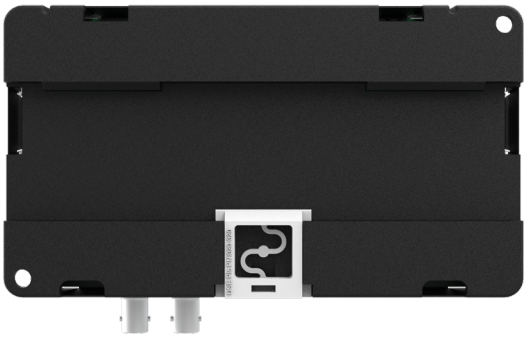
DSE**124** CAN / MSC / AMSC Extender

Part Number : 0124-01





Overview

The DSE**124** is a CAN / MSC / AMSC extender and can be used to extend the CAN communication between a DSE module and an Engine ECU, or extend the MSC / AMSC link between DSE synchronising and loadsharing modules.

Multiple DSE**124** may be used to extend a CAN / MSC / AMSC connection up to a maximum distance of 6 km, made up of two 2 km fibre segments and eight 0.25 km segments. There are also 4 LEDs mounted to the DSE**124** to indicate the communication status of the 2 CAN and Fibre Optic ports, and if the unit is connected to a power source.

Key Features

- Extends the length CAN or MSC / AMSC links in one unit
- Supports copper and fibre optic in one unit
- Maximum extension up to 6 km, made up of two 2 km fibre segments and eight 0.25 km copper segments
- Communication and Power Status provided by LEDs

Product Approvals
+ CE

Product Documentation
053-068 – DSE**124** Installation Instructions
057-116 – DSE**124** Operator Manual

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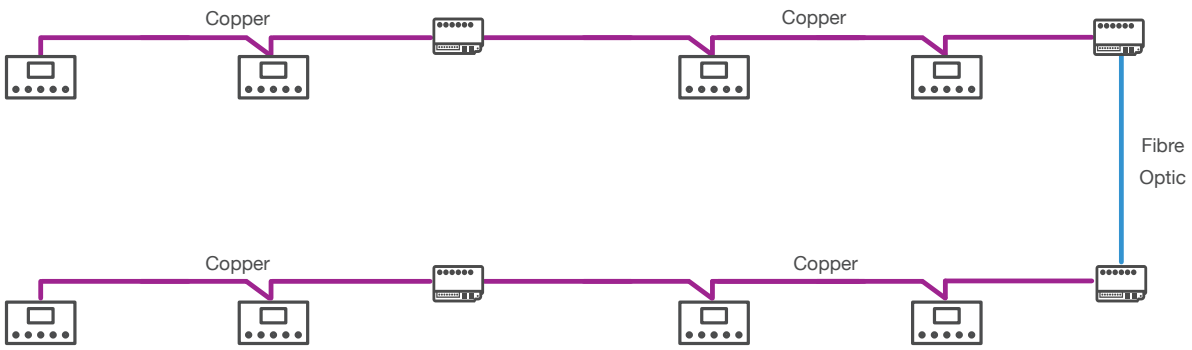
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Typical Applications

DSE**124 CAN Extender**



DSE**124 MSC / AMSC Extender**



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Part Number : 0124-01

Specifications	
DC Supply	
Continuous Voltage Rating	8 V to 35 V DC 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.
Maximum Operating Current	191 mA at 12 V 99 mA at 24 V
Maximum Standby Current	147 mA at 12 V 76 mA at 24 V
Digital Inputs	
Number	1
Function	Bus-Tie Auxiliary to make/break connection between CAN ports when configured for MSC
Type	Contact between terminals
Closed Voltage Threshold	Less than 3.2 V
Open Voltage Threshold	Greater than 8.1 V
Communications	
CAN	2 Fully Isolated Ports
Fibre Optic	1 Transmit (Tx) OM1 Fibre Port 1 Receive (Rx) OM1 Fibre Port
Temperature	
Operating Temperature	-30 °C to +80 °C / -22 °F to +176 °F
Storage Temperature	-40 °C to +85 °C / -40 °F to +185 °F
Dimensions	
Overall (W x H x D)	134.5 mm x 87.2 mm x 49.0 mm / 5.30 ” x 3.44 ” x 1.93 ”
Mounting	
DIN Rail	35 mm / 1.35“
Chassis (W x H)	2 x M4 mounting holes with 122.5 mm x 64.5 mm / 4.83 ” x 2.54 ” centres

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DSE**124** CAN / MSC / AMSC Extender

Part Number : 0124-01

Related Products		
DSEGenset®		
DSEG8900	7” Colour Parallel Genset Controller	G8900-01
DSEG8680	Bus-Tie Controller	G8680-01
DSEG8660	Mains (Utility) Controller	G8660-01
DSEG8600	Parallel Genset Controller with Integral Heater	G8600-01
DSEG4500	Compact Single Genset Controller	G4500-01
DSEG4501	Compact Single Genset Controller	G4501-01
DSE8680	Synchronising Generator Bus Tie Control Module	8680-01
DSE8660 MKII	Auto Transfer Switch & Mains (Utility) Control Module	8660-02
DSE8620 MKII	Synchronising Auto Mains (Utility) Failure Load Share Control Module	8620-02
DSE8610 MKII	Synchronising & Load Sharing Auto Start Control Module	8610-02
DSE7420 MKII	Auto Mains (Utility) Failure Control Module	7420-03
DSE7410 MKII	Auto Start Control Module	7410-03
DSE7320 MKII	Auto Mains (Utility) Failure Control Module	7320-03
DSE7310 MKII	Auto Start Control Module	7310-03
DSE6120 MKIII	Auto Mains (Utility) Failure Control Module	6120-05
DSE6110 MKIII	Auto Start Control Module	6110-05
DSEControl®		
DSEE800	Engine Only Control Module	E800-01
DSEE400	Engine Only Control Module	E400-01
DSEE100	Engine Only Control Module	E100-01
DSEPower®		
DSE9474	24 Volt 30 Amp Intelligent Battery Charger	9474-01
DSENet®		
DSE2170	DSENet® RTD / Thermocouple Input & Analogue Output Expansion Module	2170-01
DSE2160	DSENet® Input / Output Expansion Module	2160-01
DSEWebNet®		
DSE890 MKII	DSEWebNet® Gateway / IoT Gateway - 4G (GSM/Ethernet)	0890-04
DSE891 MKII	DSEWebNet® Gateway / IoT Gateway - Ethernet Only	0891-04

Product Documentation
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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 62368-1	Audio / video, information and communication technology equipment
Temperature	
BS EN 60068-2-1	Ab/Ae Cold Test -30 ºC
BS EN 60068-2-2	Bb/Be Dry Heat +70 ºC
Vibration	
BS EN 60068-2-6	Ten sweeps in each of three major axes 5 Hz to 8 Hz at ±7.5 mm, 8 Hz to 500 Hz at 2 gn
Humidity	
BS EN 60068-2-30	Db Damp Heat Cyclic 20/55 ºC at 95% RH 48 Hours
BS EN 60068-2-78	Cab Damp Heat Static 40 ºC at 93% RH 48 Hours
Shock	
BS EN 60068-2-27	Three shocks in each of three major axes 15 gn in 11 ms

Terminal Description	
Pin	**Description**
1 to 2	DC Supply
3 to 4	Bus Tie Auxiliary Digital Input
5 to 7	CAN / MSC / AMSC 1
8 to 10	CAN / MSC / AMSC 2

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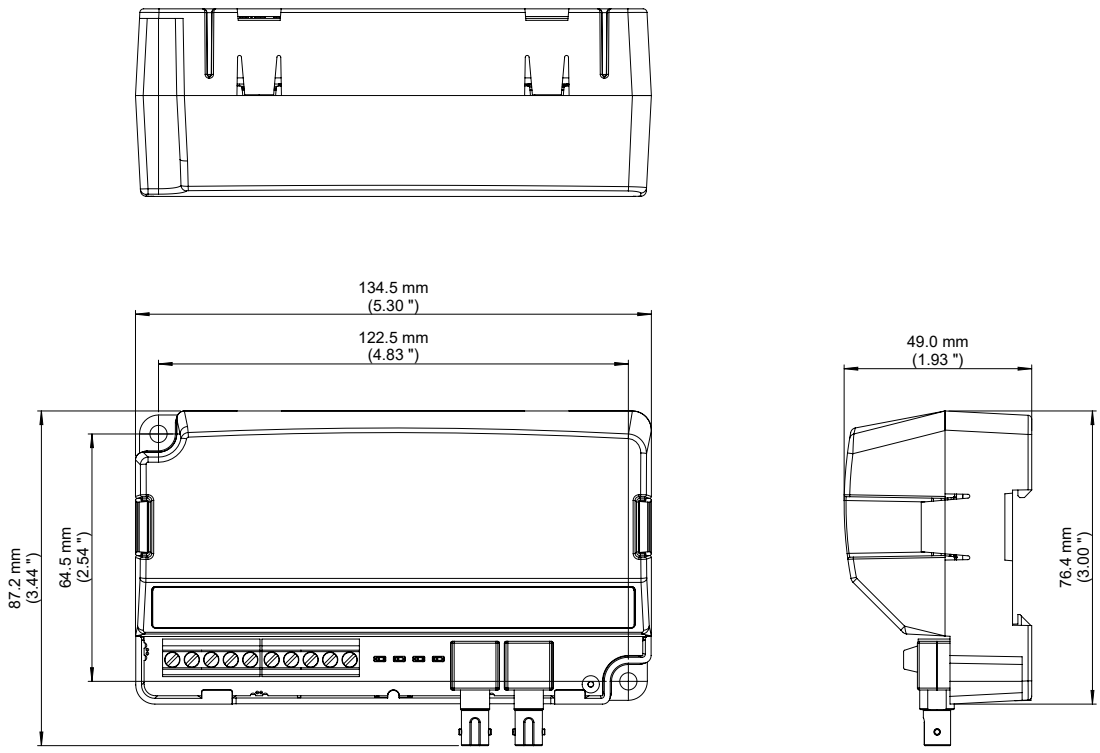
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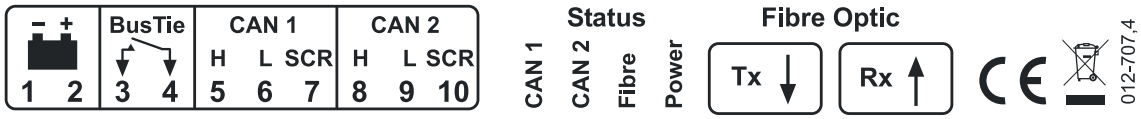
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Technical Drawing



Connection Label



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