CAN Filter

Battery Management Systems

battery made simple

Remote Monitoring ready

Product Code: CSL022A

Introduction

The **CAN Filter** is a device that isolates/separates internal and external CAN buses, therefore minimizing CAN bus utilization (bus load) and establishing Master/Slave functionality. The device has external and internal CAN bus terminals. The internal CAN bus terminal connects to the internal BMS network, which consists of the EMUS G1 Control Unit, CGMs/CCGMs, and possibly other CAN devices. Common CAN bus connects to other CAN Filters, 3rd party CAN devices.
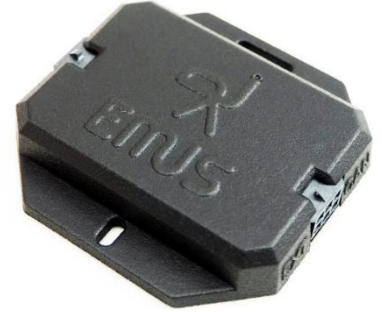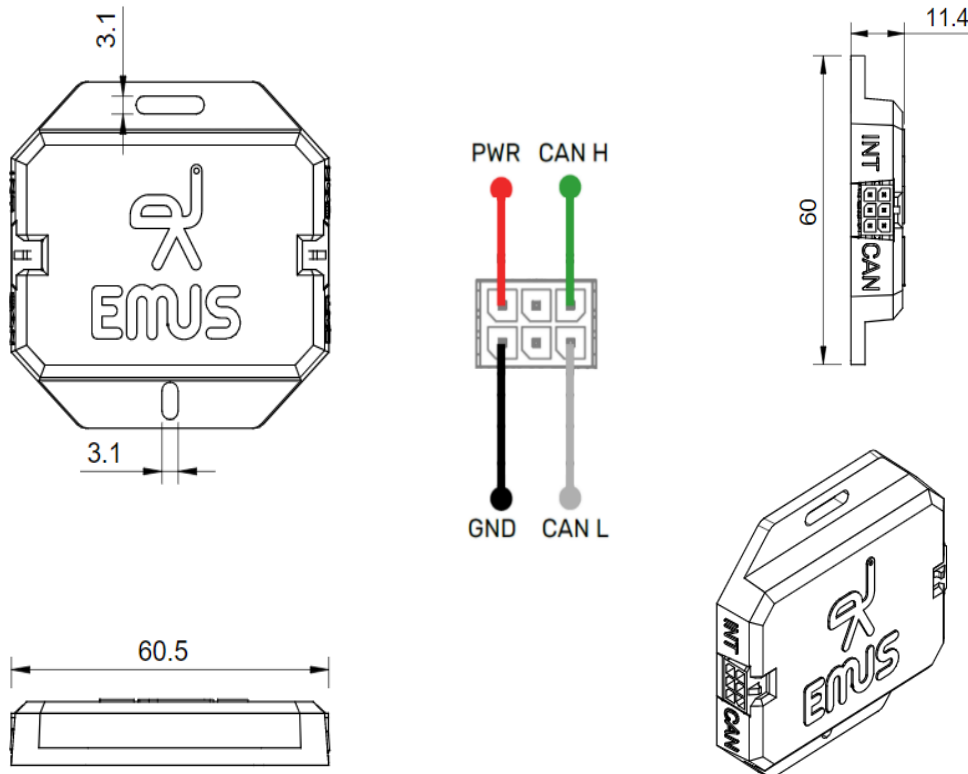
Applications

- Master/Slave systems which require more than one control unit therefore it is necessary to use CAN filters to ensure proper communication
- It can use to filter needed data for 3rd party CAN devices
- Manually configurable to select what messages can pass through Internal to External buses and vice versa

Features

- Two separate (internal / external) CAN data interfaces. Enables to communicate with CAN equipped EMUS G1 Control Unit and external devices
- Supports 50, 125, 250, 500, 800 kbit/s and 1 Mbit/s CAN baud rates (default 250kbit/s)
- Firmware update via CAN interface using EMUS G1 Control Unit and EMUS Control Panel

Mechanical Information

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Table 1. CSL022A internal pin assignment

Assignment	Mating Housing	Terminal
PWR*	Microfit 43025-0600	43030-0003 (recommended crimp tool Molex Hand Crimp Tool P/N: 638190000)
GND		
CAN_H		
CAN_L		

*The CAN filter must be powered from internal side only

Table 2. CSL022A external pin assignment

Assignment	Mating Housing	Terminal
ISO_GND	Microfit 43025-0600	43030-0003 (recommended crimp tool Molex Hand Crimp Tool P/N: 638190000)
ISO_CAN_H		
ISO_CAN_L		

▦ Electrical Characteristics

Table 3. CSL022A electrical characteristics

Item	Conditions	Value
Supply voltage	–	9.0 VDC to 64.0 VDC
Power supply reverse protection	–	Yes
Current consumption	In active mode, supply voltage = 12VDC	24.6 mA
	In active mode, supply voltage = 24VDC	13.0 mA
Isolation voltage	–	450V
CAN Speed	–	50kbps, 125kbps, 250kbps, 500kbps, 800kbps, 1Mbps
Transient/overvoltage protection between CAN H/CAN L and GND (and vice versa)	–	–24 to 24 V

▦ Other Specifications

Table 4. CSL022A other specifications

Item	Value
Operating temperature	–40 to +85 °C
IP rating	IP53
Weight	15 g

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