



The CAN GATEWAY (CGW) is a programmable, CAN Master device designed to provide customers with additional configurable solutions to their Digital Switching Systems. It is a perfect integration solution whether you are wanting:

- 12V and 24V Battery Voltage
- Classic CAN and CAN FD Interface
- Software Configurability
- Easy Interface with most CAN bus products on the market.
- Low Power Mode for Battery Energy Saving

Also created to connect vehicle CAN network to allow the DSS to react and respond to those CAN messages.

# CAN GATEWAY

DATA SHEET

Part No. DSS - CGW

The CAN GATEWAY is an innovative device designed to simplify additional solutions to existing CAN bus Digital Switching Systems.



**Classic CAN, CAN FD & J1939**

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**PINOUT TABLE**

PIN	FUNCTION	FUSE RATING	LEVEL SENSE
A1	+Vbatt	NA	
A2	GND	NA	
A3	0	F3 max 300mA	✓
B1	FDCAN-H	NA	
B2	FDCAN-L	NA	
B3	0	F4 max 300mA	✓
C1	I (Wake-up)	NA	
C2	0	F6 max 300mA	✓
C3	0	F5 max 300mA	✓
D1	UART_TX	NA	
D2	UART_RX	NA	
D3	UART_3.3V	F2 max 300mA	
E1	CAN-H	NA	
E2	CAN-L	NA	
E3	UART_GND	NA	
F1	I	NA	
F2	I	NA	
F3	I	NA	

**INPUTS:**

The CGW module has 3 Inputs configurable as active-high or active-low, plus 1 active-high input with wake-up capability as well.

Inputs voltage range is from 0 v to the battery voltage.

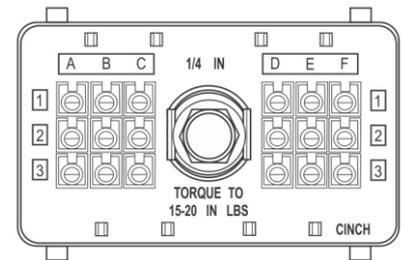
**OUTPUTS**

The CGW module has 4 Outputs each capable of 300mA source current. An internal resettable fuse protects the Outputs against over currents. Each Output is continuously monitored to detect the fuse state. These Output pins can also work as level sense Inputs (active-high).

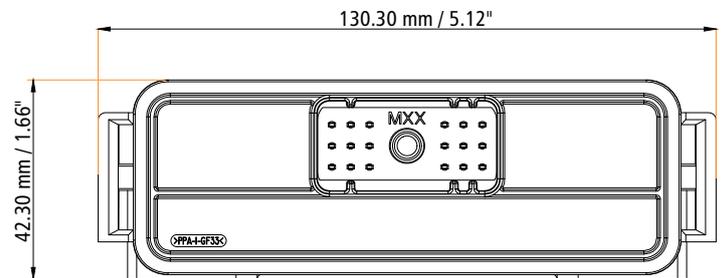
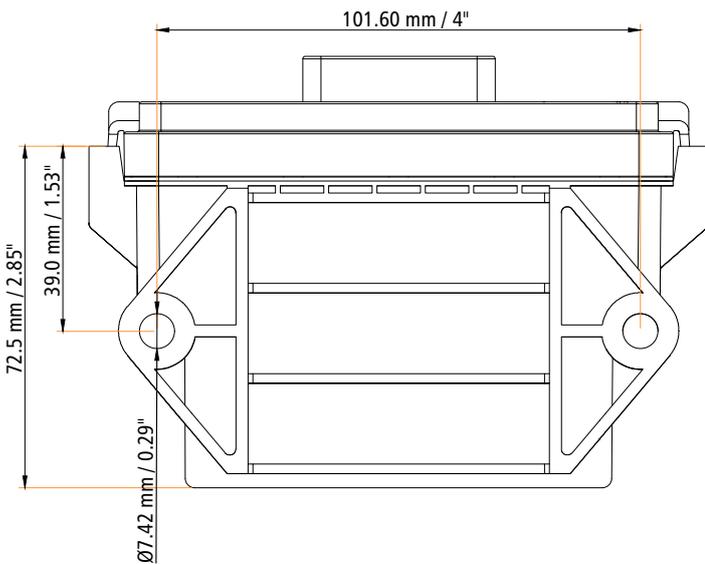
**CONNECTORS**

The 18pin Cinch Header Connector (5810118038) of the CGW panel mates with the Cinch Harness Connector (5810118023), which has Cinch Terminals (4250000873) for the Outputs, the CANbus and the Ground.

**18PIN CINCH HEADER CONNECTOR**



**DIMENSIONS**



**SPECIFICATIONS**

ELECTRICAL		CGW
Supply Voltage		12-24V Nominal 8-32V
Standby Current		<4mA in Low Power Mode
Load Current		300mA (internally limited)
Communication BUS		Classic CAN, CAN FD, J1939
MECHANICAL		CGW
Connector		Cinch 581-01-18-038
Mating Connector		Cinch 581-01-18-023
Housing/Cover		33% Glass Filled Polymer
PC Board		0.062 thick, Nema Grade FR-4, Double clad with 1oz copper
ENVIRONMENTAL		CGW
Operating Temperature		-40°C to +85°C
Storage Temperature		-40°C to +85°C
Humidity		0 to 98% (No condensation)
Salt Spray		Per ASTM B117
Ingress Protection Rating		IP67
FEATURES		CGW
Size		63mm x 130mm, 3 x 42mm
Weight		185g