

HCIO HIGH CURRENT INPUT OUTPUT MODULE

OVERVIEW

The HCIO is a high current input output drive module that is designed to handle high current outputs utilizing "smart" FET's.

This module communicates via the J1939 CAN-bus and allows for the programming of each current point while monitoring the actual current being utilized by each output. The module also has the additional ability to ensure safe shutdown, complete with alarm notification, in the case of excessive current points per output.

The HCIO is sealed in a rugged Cinch enclosure with an IP67 rating. This rating allows for a sealed environment even under severe vibration.

There are built-in heat sinks mounted inside the Cinch enclosure that ensure high currents are run smoothly and efficiently. Additionally, quick mount header plug connectors, with screw mount retention, provide excellent contact for all pins under the harshest conditions.



HCIO HIGH CURRENT INPUT OUTPUT MODULE

Mfg#-GS09313200

Inputs:

6 Sourcing Digital Inputs (>4.0 VDC)
2 Sinking Digital Inputs (<1.5 VDC)

CAN Protocol:

SAE J1939

Operating Temperature:

-40° C to 80° C (-40° F to 176° F)

Storage Temperature:

-40° C to 80° C (-40° F to 176° F)

PGN Numbers:

8 Different PGN's possible

Circuit Protection:

Jump Start protection to 48 VDC for 3 minutes

Reverse Polarity Protection to -28 VDC for 1 minute

Safety Shut Down past 80 Amps; 40 Amps per Bank outout

Housing:

7.24" x 7.45 "x 2.3"

Diagnostics:

Tested to ISO13766-Electromagnetic Interference, Field Immunity, and Electrostatic Discharge

Supply:

Voltage Range of 9 to 32 VDC

Outputs:

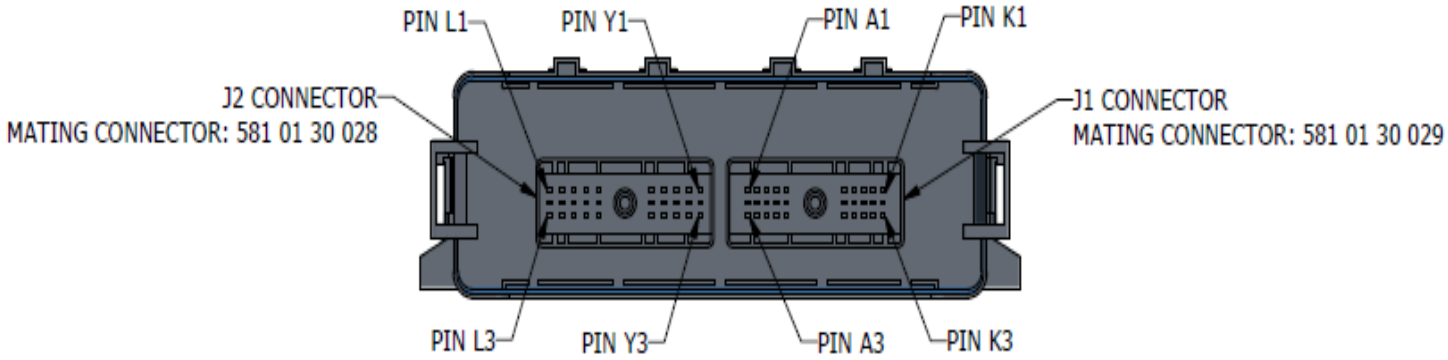
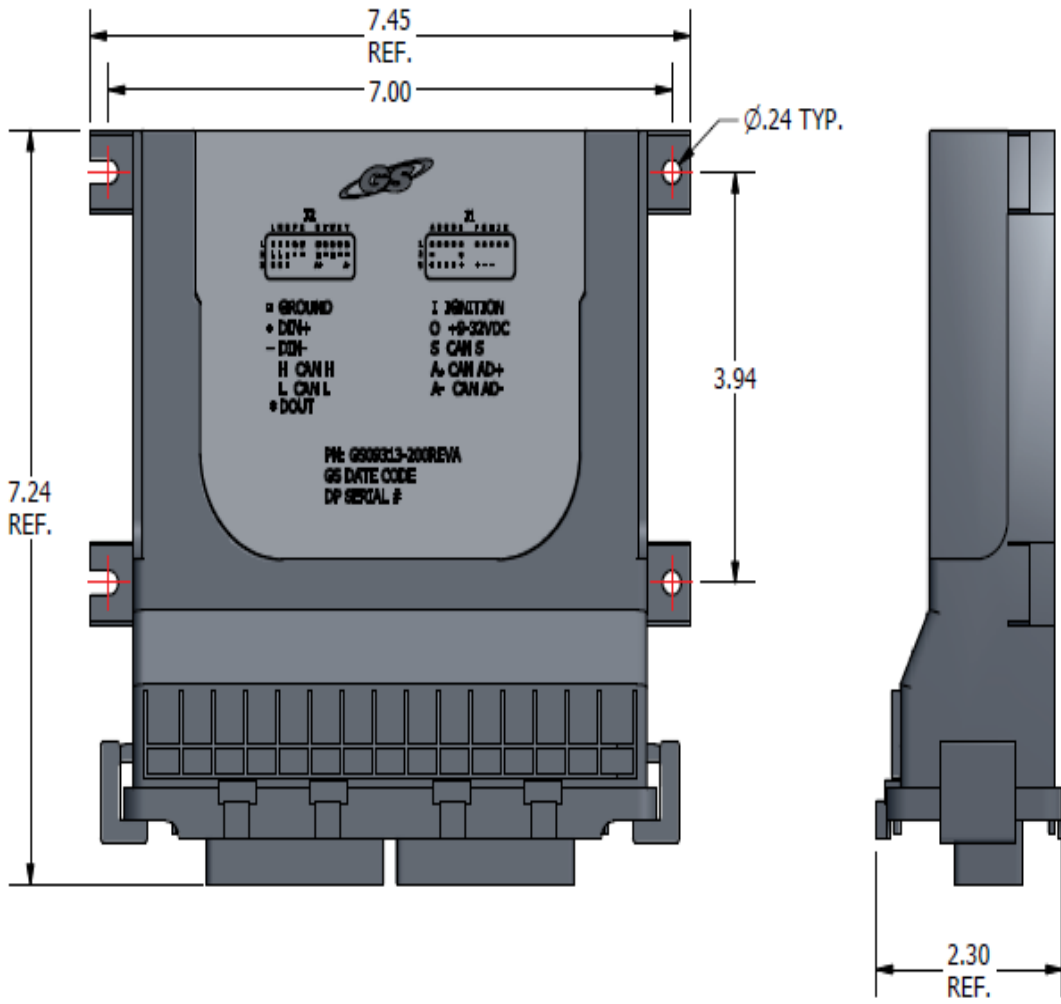
12 Digital Outputs (12 Amps max per output)

Maximum Current per Module:

80 Amps max total current @ 80° C, 12/24 VDC

40 Amps max per bank; 2 banks per module

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CONNECTIONS

J1 Connector:

- A1: 12/24V OUTPUT ON/OFF 1
- B1: 12/24V OUTPUT ON/OFF 2
- C1: 12/24V OUTPUT ON/OFF 3
- D1: 12/24V OUTPUT ON/OFF 4
- E1: 12/24V OUTPUT ON/OFF 5
- F1: 12/24V OUTPUT ON/OFF 6
- G1: 12/24V OUTPUT ON/OFF 7
- H1: 12/24V OUTPUT ON/OFF 8
- J1: 12/24V OUTPUT ON/OFF 9
- K1: 12/24V OUTPUT ON/OFF 10
- A2: 12/24V OUTPUT ON/OFF 11
- B2:
- C2:
- D2:
- E2: 12/24V OUTPUT ON/OFF 12
- F2:
- G2:
- H2:
- J2:
- K2:
- A3: INPUT ON/OFF 1
- B3: INPUT ON/OFF 2
- C3: INPUT ON/OFF 3
- D3: INPUT ON/OFF 4
- E3: INPUT ON/OFF 5
- F3: INPUT ON/OFF 6
- G3: GROUND INPUT ON/OFF 7
- H3: GROUND INPUT ON/OFF 8
- J3:
- K3:

J2 Connector:

- L1: CAN HIGH
- M1: CAN HIGH
- N1: IGNITION (DEVICE ON/OFF)
- P1: INPUT POWER (12/24V)
- R1: INPUT POWER (12/24V)
- S1: INPUT POWER (12/24V)
- T1: INPUT POWER (12/24V)
- W1: INPUT POWER (12/24V)
- X1: INPUT POWER (12/24V)
- Y1: INPUT POWER (12/24V)
- L2: CAN LOW
- M2: CAN LOW
- N2: IGNITION (DEVICE ON/OFF)
- P2: GROUND BATTERY
- R2: GROUND BATTERY
- S2: GROUND BATTERY
- T2: GROUND BATTERY
- W2: GROUND BATTERY
- X2: GROUND BATTERY
- Y2: GROUND BATTERY
- L3: CAN SHIELD
- M3: CAN SHIELD
- N3: IGNITION (DEVICE ON/OFF)
- P3:
- R3:
- S3: CAN ADDRESS RESISTOR INPUT
- T3:
- W3:
- X3:
- Y3: CAN ADDRESS RESISTOR RETURN

Mating Connector Info:

- Connector J1: Cinch p/n 581 01 30 029
- Connector J2: Cinch p/n 581 01 30 028
- Terminal (20 GXL, 18 TXL): Cinch p/n 425 00 00 872
- Terminal (18 GXL, 16 TXL, 16, GXL): Cinch p/n 425 00 00 873
- Cavity Plug: Cinch p/n 581 00 00 011

!!!!!!!!!!!!!!WARNING!!!!!!!!!!!!!!

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