

XHA3 HI AMP RELAY MODULE: CAN CONTROLLED

OVERVIEW

The High Current I/O Module is a printed circuit board relay controller with J1939 CAN bus communication.

The module is designed to be controlled by a GS switch panel or as a node on a J1939 CAN bus and uses advanced communication technology with traditional mechanical relays. This provides the operator or mechanic better diagnostic and troubleshooting features.

Assembly has the ability to “stand alone” or be controlled by a CAN/RS485 tethered Switch Panel and can be mounted in a standard enclosure or customized to fit your needs.

Dimension:

6.0" x 9.5" x 1.8"

Diagnostics:

Status LED for operation and troubleshooting

Supply:

12 Volt (9-18Vdc) or 24 Volt (+17Vdc +32Vdc)

Outputs:

8 Relays from 5 to 20 Amp outputs individually protected
2 Relays at 30 Amp outputs individually protected

Eight (8) FET Outputs 3 Amps Continuous

Outputs are rated to connector terminal limitation

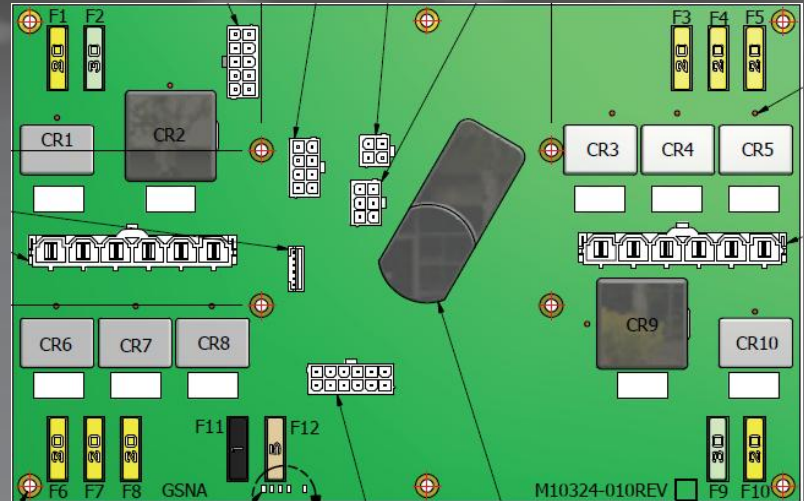
All outputs are protected via the fuse/circuit breaker

Each relay is circuit protected either fuse or circuit breaker.

Continuous outputs at 80°C

Maximum current per module:

100 Amps Total Continuous Current (125 Amp limited usage)



XHA3 HIGH AMP OUTPUT MODULE

Mfg#-GS10324010

Inputs:

12 Digital Inputs (allow for stand-alone use of XHA3)

Communication Protocol:

SAEJ1939 and RS485

Operating Temperature:

-40°C to 85°C (-40°F to +185°F)

Storage Temperature:

-50°C to +90°C (-58°F to +194°F)

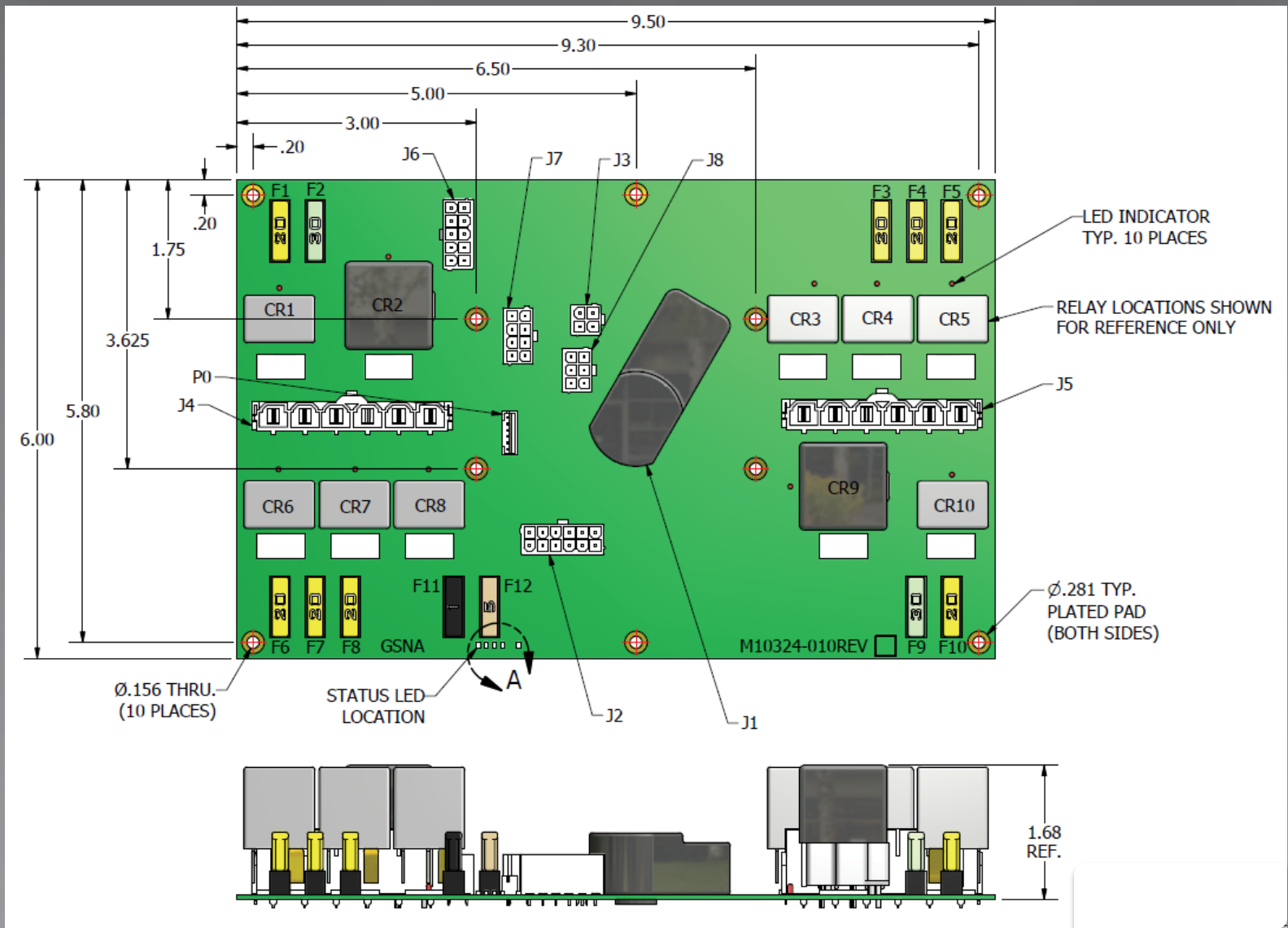
PGN Numbers:

Outputs- 65380
Source Address- 80 (0x50)

Circuit Protection:

Output Type Options:
Automotive Relay
Socket Mounted
Replaceable Output Protection ATO fuse
Type I, II, or III Circuit Breaker.

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CONNECTIONS

J1 Connector:

Mating Connector: Amphenol C10-647184-061

Pin 1: +Supply (100 Amp) (Continuous)

J2 Connector: Machine Connection

Mating Connector: Molex 39-01-2125

Pin 1: +Battery Supply

Pin 2: Power Switch Supply

Pin 3: Power Point (+)

Pin 4: Common Supply

Pin 5: Open

Pin 6: Open

Pin 7: Digital Input 1

Pin 8: Digital Input 2

Pin 9: Digital Input 3

Pin 10: Digital Input 4

Pin 11: Digital Input 5

Pin 12: Digital Input 6

J3 Connector: Can Connection

Mating Connector: Molex 39-01-3042

Pin 1: CAN-H

Pin 2: CAN-L

Pin 3: CAN Shield

Pin 4: No Connection

J4 Connector: Relay Outputs 1-5

Mating Connector: Molex 43914-1101 Mini-Fit SR.

Pin 1: Relay 1- to 20 Amp

Pin 2: Relay 2- 30 Amp

Pin 3: Relay 3- to 20 Amp

Pin 4: Relay 4- to 20 Amp

Pin 5: Relay 5- to 20 Amp

Pin 6: No Connection

J5 Connector: Relay Outputs 6-10

Mating Connector: Molex 43914-1101 Mini-Fit SR.

Pin 1: Relay 6- to 20 Amp

Pin 2: Relay 7 - to 20 Amp

Pin 3: Relay 8- to 20 Amp

Pin 4: Relay 9 – 30 Amp

Pin 5: Relay 10- to 20 Amp

Pin 6: No Connection

J6 Connector: FET Outputs- 4 Amp Control

Mating Connector: Molex 39-01-2100

Pin 1: FET Out 1

Pin 2: FET Out 2

Pin 3: FET Out 3

Pin 4: FET Out 4

Pin 5: FET Out 5

Pin 6: FET Out 6

Pin 7: FET Out 7

Pin 8: FET Out 8

Pin 9: FET Common Supply

Pin 10: FET Common Supply

J7 Connector: FET External Input Control

Mating Connector: Molex 39-01-2080

Pin 1: Relay or FET Input 1

Pin 2: Relay or FET Input 2

Pin 3: Relay or FET Input 3

Pin 4: Relay or FET Input 4

Pin 5: Relay or FET Input 5

Pin 6: Relay or FET Input 6

Pin 7: Relay or FET Input 7

Pin 8: Relay or FET Input 8

J8 Connector: Switch panel Control RS-485

Mating Connector: Molex 39-01-2060

Pin 1: Switch Panel RS-485-A

Pin 2: Switch Panel Common Supply

Pin 3: Switch Panel +5VDC Supply

Pin 4: Switch Panel RS-485-/B

Pin 5: No Connection

Pin 6: Switch Panel Shield

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

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCT AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE

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