GS NORTH AMERICA

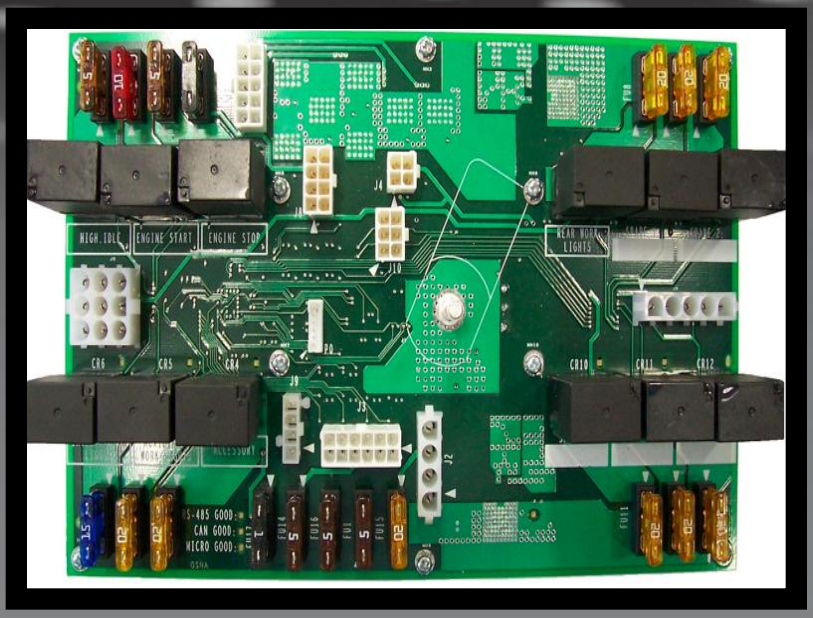
XHA2 HI AMP RELAY MODULE: CAN CONTROLLED

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 J1939 relay module and can be mounted in a standard enclosure or customized to fit your needs.



XHA2 HIGH AMP OUTPUT MODULE
Mfg#-GS09259112

Housing:
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:
12 relay outputs individually protected

Six (6) 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

19 Amps maximum; continuous outputs at 85°C

Maximum current per module:
100 Amps Total Continuous Current (125 Amp limited usage)

Inputs:
12 Digital Inputs (allow for stand-alone use of XHA2

CAN Protocol:
SAEJ1939

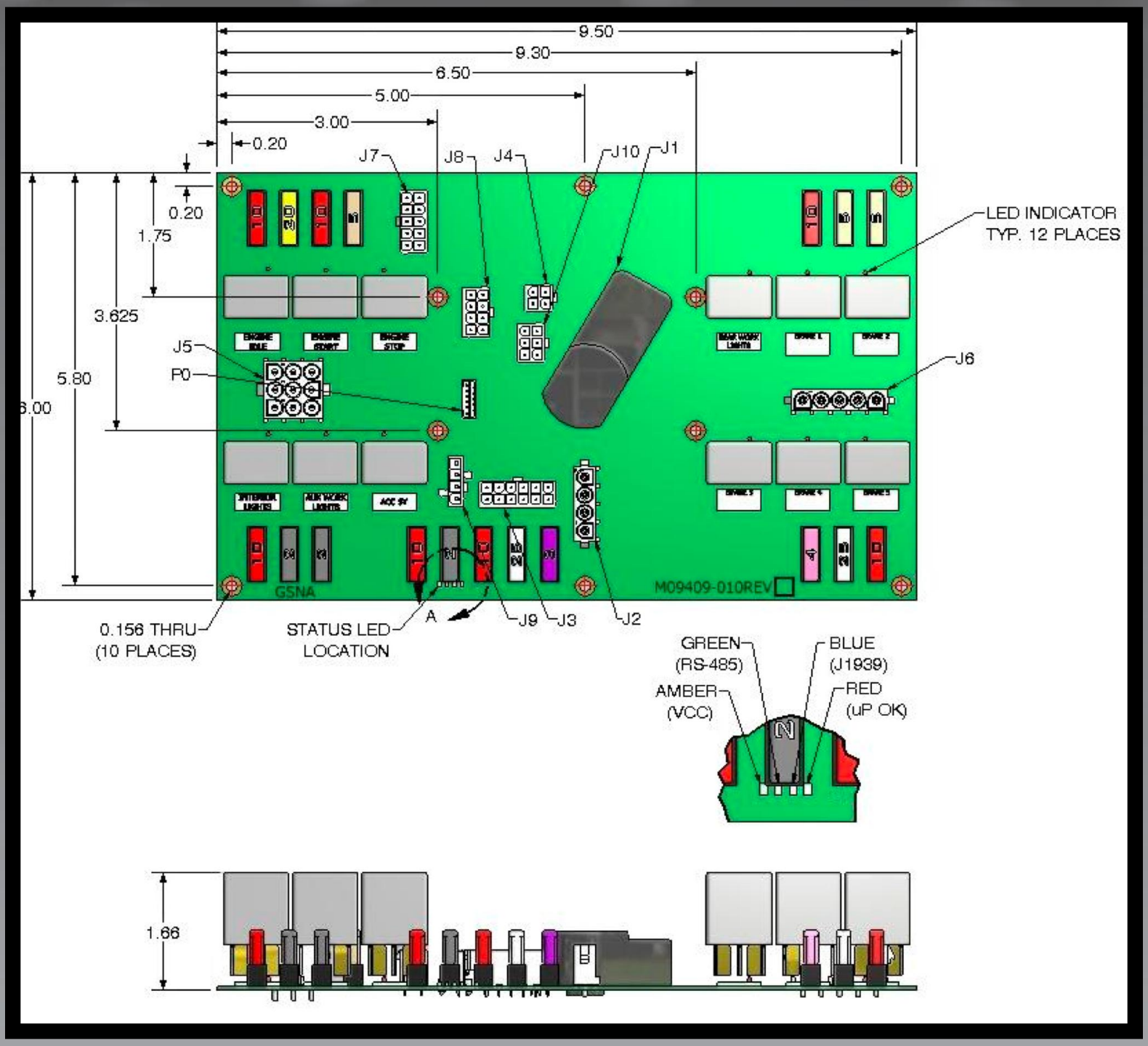
Operating Temperature:
-40°C to 85°C (-40°F to +185°F)

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.

XHA2 HI AMP RELAY MODULE: CAN CONTROLLED



XHA2 HI AMP RELAY MODULE: CAN CONTROLLED

CONNECTIONS

J1 Connector:
Mating Connector: Amphenol C10-647184-061
Pin 1: +Supply (100 Amp) (Continuous)

J2 Connector:
Mating Connector: Tyco 1-480702-0
Pin 1: +Battery Supply
Pin 2: Power Switch Supply
Pin 3: Power Point (+)
Pin 4: Common Supply

J3 Connector: Machine Connection
Mating Connector: Molex 39-01-2125
Pin 1: +Ignition Supply
Pin 2: 5 Amp Continuous Power
Pin 3: 5 Amp Switched Power
Pin 4: Indicator
Pin 5: Crane Hour Meter (Through connect to J9)
Pin 6: PTO Hour Meter (Through connect to J9)
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

J4 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

J5 Connector: Relay Outputs 1-7
Mating Connector: Tyco 1-480763-0
Pin 1: Relay 1
Pin 2: Relay 2
Pin 3: Relay 3
Pin 4: Relay 4
Pin 5: Relay 5
Pin 6: Relay 6
Pin 7: Relay 7
Pin 8: No Connection
Pin 9: No Connection

J6 Connector: Relay Outputs 8-12
Mating Connector: Tyco 1-480706-0
Pin 1: Relay 8
Pin 2: Relay 9
Pin 3: Relay 10
Pin 4: Relay 11
Pin 5: Relay 12

J7 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 Common Supply
Pin 8: FET Common Supply
Pin 9: FET Common Supply
Pin 10: FET Common Supply

J8 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: Switch Supply
Pin 8: Switch Supply

J9 Connector: Hour Meter Connector
Mating Connector: Molex ?????
Pin 1: Switched Power 1 Amp Fused
Pin 2: Crane Hour Meter Reading
Pin 3: PTO Hour Meter Reading
Pin 4: Not Used

J10 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

GS North America, LLC
5050 S. Towne Drive
New Berlin, WI 53131
800.261.8735