

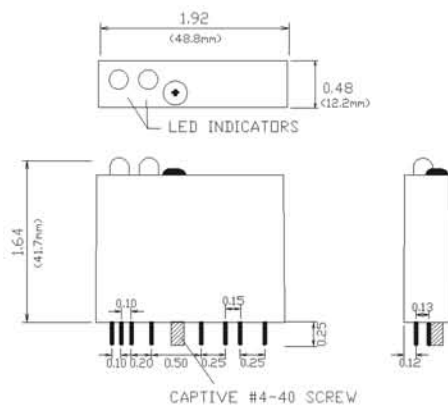
DUAL Opto Input Modules

Gx2-VIN
Gx2-VIN5
Gx2-IAC
Gx2-IAC5

Fits Universal and HDX™
High Density I/O Racks

Dual OPTO-ISOLATED

Dimensions



Features

- 5 to 250v Input Sensing (VIN types)
- Dual Density Packaging
- Optically-Isolated Inputs
- 5-24V Logic Operation
- Integral LED Indicators
- AC and DC Sensing
- 5000 Vrms In-Out Isolation
- Yellow Color Code
- High Reliability
- Captive #4-40 Screw
- Operating Temp. -40°C to +70°C
- 3 Year Factory Warranty

Description

The Gx2-VIN/5 and Gx2-IAC5 Dual Input Modules provide "double density" packaging providing two isolated inputs in a single case size. The Gx2™-Series serves well in high density I/O applications.

The Gx2-VIN type accepts 5 to 250 Vac/dc. The Gx2-IAC types offer a 90-140 Vac input range. Each module provides two complete high density I/O systems. Both inputs are completely independent and provide input to output optical isolation to more than 5000 Vac rms.

The Gx2-VIN types fit all HDX™ and Universal I/O Racks and are available for logic system voltages ranging from 5 to 24 Vdc.

Gx2-VIN
Gx2-VIN5
Gx2-IAC
Gx2-IAC5

DUAL Opto Input Modules

*Absolute Maximum Ratings

Supply Voltage (Pins 3 & 5)..... (see below)
 Input Sense Voltage (Input A or B)..... (see below)
 Ambient Operating Temperature..... -40 to +70°C
 Isolation Voltage (Input to Output)..... 5000 Vrms (1 Sec.)

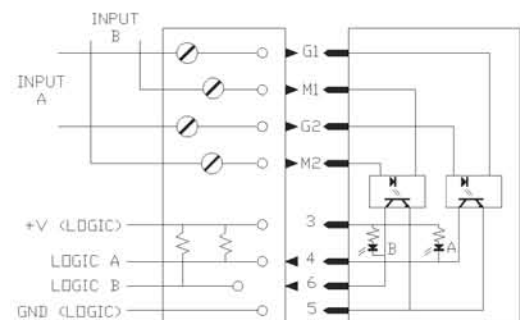
***NOTE:** STRESSES ABOVE THOSE LISTED UNDER ABSOLUTE MAXIMUM RATINGS MAY CAUSE PERMANENT DEVICE DAMAGE. OPERATION AT THESE RATINGS FOR EXTENDED PERIODS MAY AFFECT RELIABILITY.

Recommended Operating Parameters

SYMBOL	PARAMETER	LIMITS			UNIT	CONDITION
		MIN	TYP	MAX		
Vcc	Supply Voltage (Gx2-VIN) (Gx2-VIN5, Gx2-IAC5)	4.5		28.0 5.30	Vdc	Pins 3 & 5
Icc	Supply Current		25	40	mAdc	Both Inputs Active
TA	Ambient Temp.	-40		+70	°C	Operating
ton	On Time		1		mSEC	
toff	Off Time		50		mSEC	
VoL	Output Logic Voltage Low		0.3	0.8	V	@15 ma (A or B)
Ii	Input Current		5	10	mA	Note 1
Vi	Input Voltage (Gx2-IAC5) (Gx2-VIN, Gx2-VIN5)	85 4.5		150 250	Vac Vac/Vdc	Note 1

Note 1: Values apply to each input.

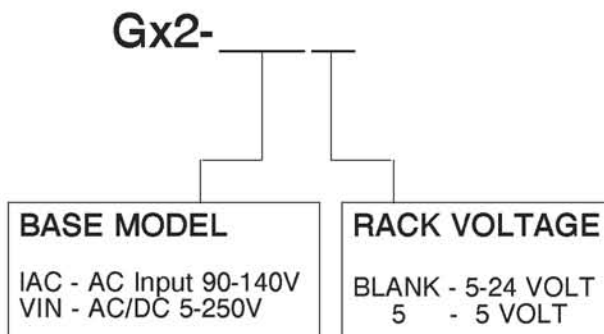
Connection Diagram



Operation

Gx2™-Series VIN and IAC5 input models provide a low logic level indicating that voltage is present on the input. As two independent input circuits, when the specified voltage (depending on model) is applied across pins G1 and G2, pin 4 is pulled to a low state and is indicated by LED A. Likewise, when voltage is applied across pins M1 and M2, pin 6 is pulled to a low state and indicated by LED B. When voltage is absent on either input, the respective output pin is pulled to a high logic state.

Part Numbering



EXAMPLE(S):

- Gx2-VIN - [DUAL Opto-Isolated 5-250 Vac/dc Input, 5-24 V Logic]
- Gx2-VIN5 - [DUAL Opto Isolated 5-250 Vac/dc Input, 5 V Logic]
- Gx2-IAC - [DUAL Opto-Isolated 90-140 Vac Input, 5-24 V Logic]
- Gx2-IAC5 - [DUAL Opto-Isolated 90-140 Vac Input, 5 V Logic]

NOTE: A maximum difference of potential between pins M1 & G2 is normally 30 volts for UL standard #508. If a common circuit feed is used, it is recommended that these pins be tied as common. Otherwise a 0.030" surface spacing requirement will apply.