

DRY Contact Output Modules

Gx2-Types **DUAL I/O**

Gx2-DRY Series
Gx2-1AMP Series
Gx2-5AMP Series

Overview

Gx2™ Series Dry Output modules offer dual density I/O packaged in the *same* module size as single point G-Series modules. Additional pins provide connectivity to Universal I/O mounting racks, single DIN-102R Din-rail socket or Brentek's High-Density HDX™ Series I/O mounting racks to provide the I/O points in the smallest physical space. Each of the dual outputs are isolated and are controlled independently. LED indicators annunciate which relay output(s) are energized.

Fully encapsulated packaging and extended operating temperature ranges make this series suitable for robust industrial control applications. The input is active-low and may be controlled by open-collector logic. TTL and CMOS outputs can control 5V models directly.

All types offer versatile DRY CONTACT switching of AC and DC power and signal loads with true zero OFF-state leakage current and low ON-state contact resistance. Dual FORM A (N.O.) contacts are standard; optional types may be Dual FORM B (N.C.), DUAL output 1A/1B or single FORM C.

Available in 5V, 12V, 15V & 24V Logic Voltages.

Recommended Operating Parameters

SYM	PARAMETER	LIMITS			UNIT	CONDITION
		MIN	TYP	MAX		
Vcc	Supply Voltage (Gx2-DRY5) (Gx2-DRY12) (Gx2-DRY15) (Gx2-DRY24)	4.5 10.8 13.5 21.6		5.25 14.0 18.0 28.0	Vdc	Pins 3 & 5
Icc	Supply Current (Gx2-DRY3) (Gx2-5AMP5) (Gx2-1AMP5) (Gx2-1AMP5)		24 90 180 90	32 100 200 100	mAdc	A & B Energized; (Use ½ Value for -C Types)
TA	Ambient Temp. (Gx2-DRY) (Gx2-5AMP & Gx2-1AMP)	-40 -20		+85 +70	°C	Operating
top	Operate Time (Gx2-DRY) (Gx2-5AMP) (Gx2-1AMP)		0.5 6 3	1 10 10	mSEC	Pick-up & Drop-out Value(s)
VIL	Input Logic Voltage Low		1.0	0.8	V	5 volt types
VIH	Input Logic Voltage High	3.0	2.4		V	5 volt types
Viso	Isolation Voltage (Gx2-DRY) (Gx2-5AMP) (Gx2-1AMP)	1000 3000 1500			Vac	Coil-contact for 60 seconds
Ii	Input Logic Low Current (Gx2-DRY) (Gx2-5AMP & Gx2-1AMP)			-0.5 -2.5	mA	5 volt logic is shown. No input high current required. Unit may be driven by Open-Collector logic.

I/O Compatibility Gx2-Series



Product Features

- ▶ AC/DC Switching
- ▶ Dual Point I/O Packaging
- ▶ Wide Operating Temperatures
- ▶ <10 mS Switching Time
- ▶ Black I/O Case
- ▶ High Reliability
- ▶ Captive #4-40 Screw
- ▶ Encapsulated Design
- ▶ 3 Year Limited warranty**
- ▶ 2x (N.O.) FORM 1A Standard
- ❖ 2x (N.C.) FORM 1B (-B suffix)
- ❖ 1 (N.O.) / 1 (N.C.) (-AB suffix)
- ❖ 1x FORM 1C (-C suffix)

1. Internal relay coils are suppressed with clamping diodes (not shown).
2. Gx2-DRY Series are not be suitable for use applications with high magnetic fields present. Use high current models.

** Refer to warranty section for limited warranty details.

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***Absolute Maximum Ratings**

Supply Voltage (between pins 3 & 5).... (see below)
 Logic Input (pins 4 & 5)..... $\pm V_{CC}$
 Ambient Operating Temperature..... (see below)

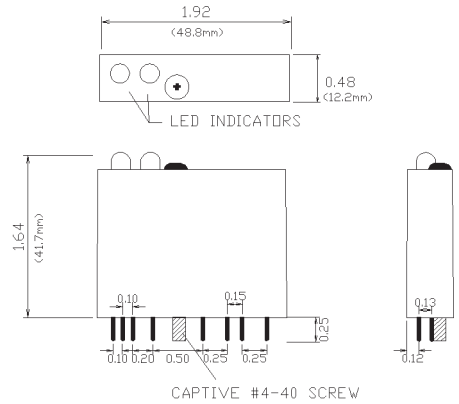
***NOTE:** STRESSES ABOVE THOSE LISTED UNDER ABSOLUTE MAXIMUM RATINGS MAY CAUSE PERMANENT DEVICE DAMAGE. OPERATION AT THESE RATINGS FOR EXTENDED PERIODS MAY AFFECT RELIABILITY.

Output Contact Ratings

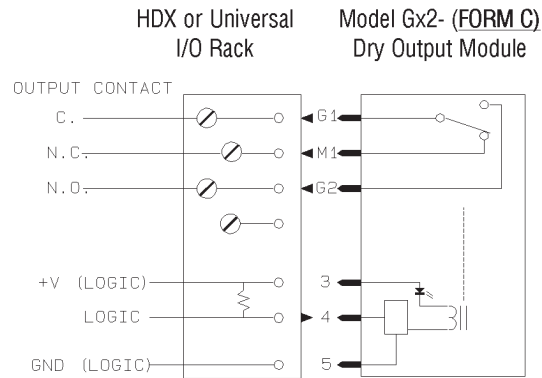
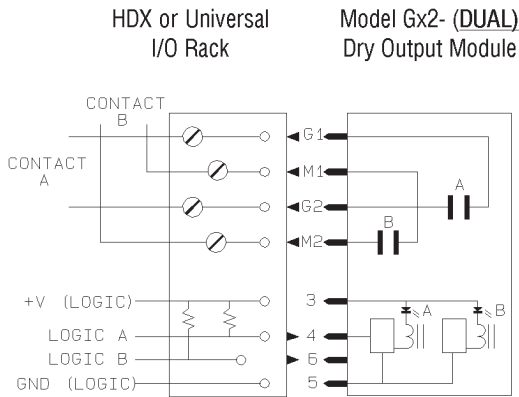
PARAMETER	Gx2-DRY FORM 2A Reed Models	Gx2-DRY FORM 1C & 2B Reed Models	Gx2-5AMP FORM 2A 5 Amp Models	Gx2-1AMP FORM 2A, 2B, 1C & 1A/1B Models	UNITS
Switching Voltage	175/250	175/250	250/30	250/125	ac/dc Volts
Switching Current (Resistive)	1	0.5	5	1	Amps
Switching Current (Inductive)	—	—	2	—	Amps
Power Rating	—	—	150	60	Watts
Horse Power Rating	—	—	1/10	—	H.P.
VA Rating	20	10	1250	125	VA
Initial Contact Resistance	0.15	0.15	0.03	0.05	Ohms
Min. Recommended Load	0.01	0.01	100	10	mA

Dimensions

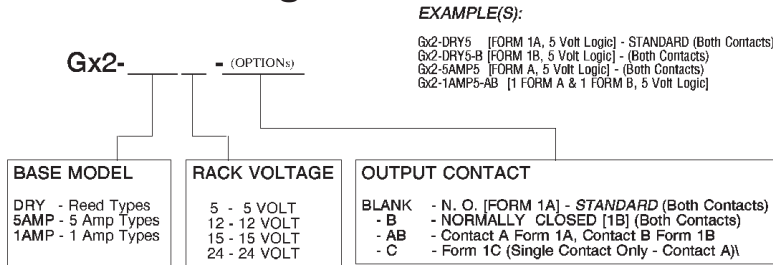
Units are in inches unless noted otherwise.



Connection Diagrams



Part Numbering



Available Configurations

MODEL \ FORM	2xA D	2xB D	1A/1B D	1C S
Gx2-DRY_	x	x	x	x
Gx2-5AMP_	x			x
Gx2-1AMP_	x	x	x	x

D - DUAL MODULE
 S - SINGLE FORM C MODULE

NOTE: DIFFERENCE OF POTENTIAL BETWEEN PINS M1 & G2 MUST NOT EXCEED 30 VOLTS. WHERE APPLICABLE (SUCH AS IN APPLICATIONS WITH A COMMON FEED), THESE PINS MAY BE TIED AS COMMON TO EACH OTHER. OTHERWISE, DESIGN RULES FOR 30 MIL SPACING APPLY.