

## Limit Switches

Limit Switches provide a contact closure when an actuator or drive reaches a predetermined point in its stroke. Although the switches are typically set at the ends of stroke, any position may be indicated. For the X2 design two types are available: CPU operated electronic relays (which are offered as standard equipment) or independent mechanical switches.

### ELECTRONIC RELAYS

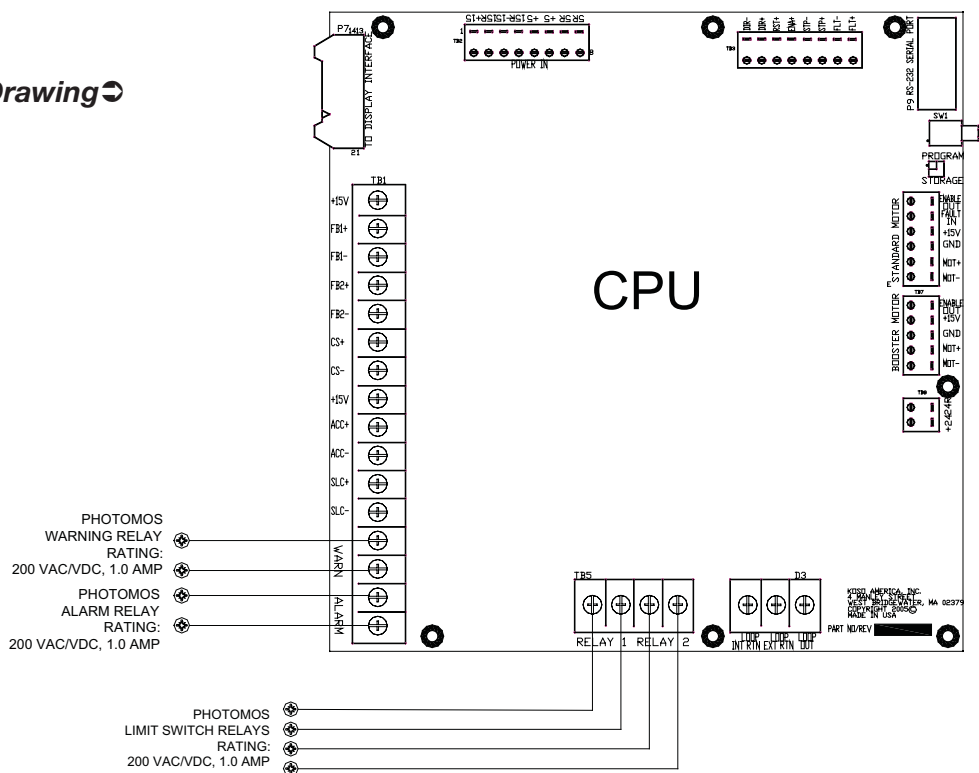
The electronic limit, alarm and warning relays are located on the CPU board. All wiring connections are made directly to this board at TB1 and TB5. An indicator LED shows the status (energized-ON) of each relay. Two of the relays are configured in the Setup Mode to activate upon user defined stroke limits. The third relay is an alarm indicator and the fourth a warning indicator. Wiring for electronic relays is shown on the drawing.

### GENERAL SPECIFICATIONS:

#### Electronic Relays

Quantity	4
Type	High Capacity Photo MOS Relay
Rating*	1 amp @ 200 Vac/Vdc
Turn on time	<3mS
Differential Travel (Hysteresis)	0.1%
Connection:	Terminal strip on the CPU board

Drawing ↻





**MECHANICAL SWITCHES**

Mechanical limit switches are independent devices installed on the yoke in linear units and in the feedback housing area of rotary or drive units. End user electrical connections are made directly to the switches (not inside the electrical enclosure). Position will be indicated regardless of actuator power status.

**GENERAL SPECIFICATIONS:**

**Linear**

	<b>SPDT</b>	<b>DPDT</b>
Quantity	2 or 4	2
Manufacturer	General Equipment Go Switch	General Equipment Go Switch
Type	Single Pole, Double Throw (SPDT), Form C	Double Pole, Double Throw, Form CC
Rating *	5 amp @ 24 Vdc, 0.5 amp @ 125 Vdc, 10 amp @110 Vac - resistive	3 amps @ 24 Vdc, 0.5 amp @ 120 Vdc, 10 amp @ 120 Vac resistive
Differential Travel (Hysteresis)	5/16 "	5/16 "
Environmental	NEMA 4x, CSA CL.I, DIV. 1, GRP. B, C & D	NEMA 4X, C1 1 Div 2 Grps A-D
Connection	½ "-14 NPT, screw terminals	½ "-14 NPT, Flying Leads

**Rotary**

	<b>SPDT</b>	<b>DPDT</b>
Quantity	2 or 4 (aluminum feedback housing)	2
Manufacturer	Proximity Controls	Micro Switch
Type	Single Pole, Double Throw (SPDT)	Double Pole, Double Throw
Rating *	5 amp @ 24 Vdc, 0.5 amp @ 125 Vdc, 10 amp @ 110 Vac - resistive	5 amp @ 24 Vdc, 0.5 amp @ 125 Vdc, 10 amp @ 120 Vac - resistive
Differential Travel (Hysteresis)	5°	5°
Environmental	NEMA 4X, CSA CL.I, DIV2, GRP. B, C & D.	NEMA 4X
Connection	Within the feedback housing (½ " NPT) screw terminals	Within feedback housing (½ " NPT) screw terminals

*\* For heavy or inductive loads, arc suppression devices such as resistors and capacitors are recommended in order to extend contact life.*

*REXA is continually improving the design of its products. As such, specifications are subject to change.*