

## Optional Digital Joystick

The optional digital joystick allows remote jog control of a one or two axis VXM controller. The joystick provides four momentary outputs that are connected to the Jog Motor inputs on the Auxiliary I/O (internally connected to same inputs as the front panel jog buttons.) See VXM Users Manual for information on jog function and speed settings.

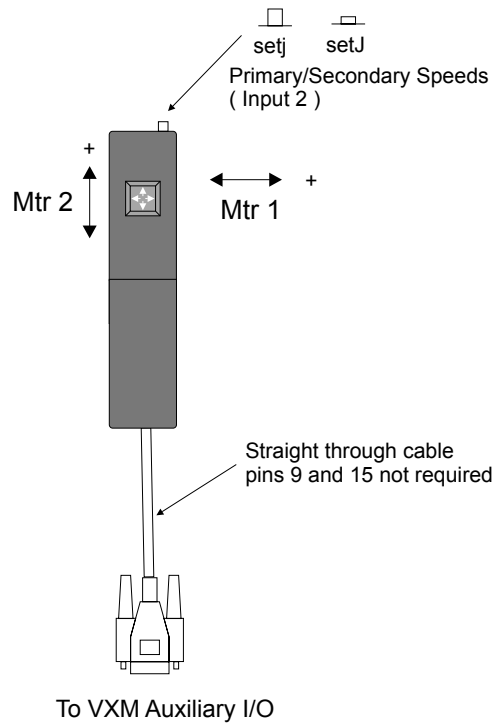
The joystick without the enclosure is available for OEM applications.

**Enclosure Dimensions:** 1.45" x 5.75" x 0.85" (Width x Depth x Height)  
**Overall height:** 1.6" (bottom of enclosure to top of joystick lever)

The digital joystick has a button switch connected to Input 2 for toggling between the primary and secondary settable jog speeds.

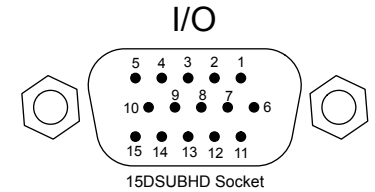
**NOTE:** The default primary and secondary speeds are by default both set to 2000.

**NOTE:** It is possible to disable/remove the button switch if Input 2 is needed for a function other than jog speed selection. To disable/remove the button, with the button in the out position, use pliers to pull the button cap off the switch actuator. The switch actuator should now be below the surface enough to prevent unintended input. An alternate method to disable the button switch is by clipping off pin 6 on the cables connector.



## Auxiliary I/O Connection

The I/O connections can be used for signaling external equipment or waiting for an external signal. The front panel button inputs are also available on the I/O connector for remote jog, run, and stop.



**NOTE:** All inputs and outputs are TTL levels (0 to +5VDC.) Inputs have resistive pull-ups, and are activated by connecting to 0V. Outputs are normally low, and can sink and source 20 mA max. For more information refer to Appendix K in the VXM Users Manual.

Pin#	Name	Function
1	0V	Logic reference ground for inputs and outputs
2	+5V	+5VDC for Joystick power and other external logic (75mA max. output)
3	Ain	Analog input for Joystick, speed setting, or analog sensor.
4	Run	Run input to start program, same input as Run button (active low)
5	I1	Input 1 (active low)
6	I2	Input 2 (active low)
7	I3	Input 3 (active low)
8	I4	Input 4 and Stop (Same as Stop button on front panel) (active low)
9	0V	Logic reference ground for inputs and outputs
10	J1-	Jog Motor 1 CCW (Same as front panel button) (active low)
11	J1+	Jog Motor 1 CW (Same as front panel button) (active low)
12	J2-	Jog Motor 2 CCW (Same as front panel button) (active low)
13	J2+	Jog Motor 2 CW (Same as front panel button) (active low)
14	O1	Output 1 (normally low)
15	O2	Output 2 (normally low)