



Description

The Remote I/O module (TV11593) can be connected to the Remote I/O port with three different cable lengths: TV5839 (1M cable), TV5840 (3M cable) and TV5841 (5M cable).

I/O Function	Total	Detail	Electrical Specifications
Digital Inputs	8	8 Bi-directional (PNP or NPN type)	15-30 Vdc On Voltage, Opto Isolation, 10 msec response
Digital Outputs	8	6 Relay 2 PNP transistor	Relay: DC or AC Load Transistor: 24 VDC, 250 mA max
Analog Outputs	2	Voltage (0-10 VDC) or Current (4-20 mA)	12-bit A-D, 0.2% of full scale Current - max load 500 Ohm Voltage - max load 1000 Ohm

Safety



WARNING:

- Use the I/O Module only as specified in this manual.

Installation

Wiring Recommendations

- Do not wire to any of the following items: Analog Input pins (CS11 – I2 and CS31 – I4), RJ12 port, or USB micro port
- Do not wire external 24 Vdc power to 24V pin. Use this power for digital inputs and digital outputs only
- Ensure power is off during all installation wiring
- Ensure all wire connections are neat and secured properly. Connector can be removed for easier wiring assembly

General Wiring and Mounting

- Connect M12 cable from Remote I/O port to male M12 port on the I/O module. This cable provides both power (24 VDC fused at 2.0 amps) and communication bus
- Module can be mounted using two main methods
 - Install provided DIN rail section to underside of TITAN Versa frame per picture below. Install module and add stop block on end
 - Install in separate control panel or anywhere as needed

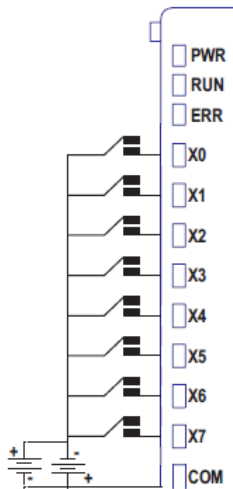


Wiring Digital Inputs

- Wire either +24 or 0 Vdc to COM port per desired digital input type per the table below

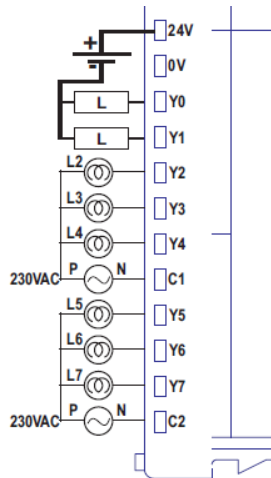
Digital Input Type	Wiring to Common
PNP, + voltage to input	Wire 0 VDC to COM and + Voltage to inputs
NPN style, 0 VDC to input	Wire +24 vdc to common

Wire X0 to X7 per desired application inputs.



Wiring Digital Outputs

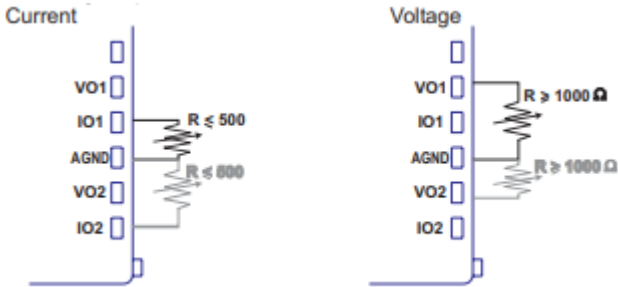
- Wire + 24 Vdc to 24V pin and 0 Vdc to 0V pin. These pins are above Y0
- Y0 and Y1 can be used as 24 Vdc PNP outputs. Ensure load is less than 0.25 amps
- Wire 6 Relay outputs per diagram below
 - Commons are shared between Y2 – Y4 and Y5 – Y7
 - Commons can be wired with Common tied to ground or tied to positive voltage



Wiring Analog Outputs

- Connect Analog Output wiring per diagrams below

Figure 1: Digital Output Wiring



Operation

- Power on the TITAN VERSA leak detector
- Verify the PWR and RUN LEDs on the module are on
- When inputs (X0-X7) or outputs (Y0-Y7) are on, the LED's will illuminate
- Configure module per desired I/O settings. See Remote I/O section in the TITAN VERSA Operations Manual (SMT-07-1037)



Maintenance and Accessories

P/N	Description
LMSA3850	Fuse, 5mm x 20mm, 2 AMP, slow blow, glass holder - (located inside TITAN VERSA in case - Fuse F2)