

Description

The Remote I/O module (TV115893) can be connected to the Remote I/O port with three different cable lengths: TV5839 (1M cable), TV5840 (3M cable) and TV5841 (5M cable). The module is 6.1" (155mm) long X 1.2" (30.5mm) wide X 3.9" (99mm) high.

I/O Function	Total	Detail	Electrical Specifications
Digital Inputs	8	8 Bi-directional (PNP or NPN type)	10-28 Vdc On voltage (PNP), opto-isolated, 75 msec response
Digital Outputs	8	8 PNP Transistor	24 VDC, 1.5 A max per channel, 4.7 A total
Analog Outputs	2	Voltage (0-10 VDC)	16-bit A-D, 0.1% of full scale, $5k\Omega$ min load resistance

Installation

Wiring Recommendations

- The USB C port is for module configuration by Laco only and does not need to be connected.
- Use a separate +24V supply to power digital inputs/outputs. Do not "Tie in" to VERSA +24V power supplying remote IO module.

 Ensure all wire connections are neat and secured properly. The two terminal block connectors on the Remote I/O module can be removed for easier wiring assembly.

General Wiring and Mounting

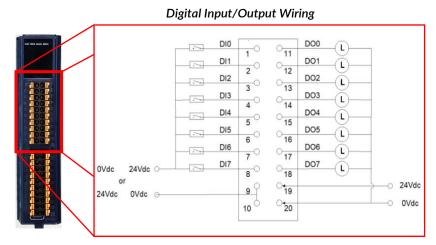
- Ensure power is off during all installation wiring.
- Connect M12 cable (purchased separately) from VERSA Remote I/O port to male M12 port on the I/O module. This cable provides both power (24 VDC fused at 2.0 amps) and communication for controlling the module.
- Module can be mounted using two main methods:
 - Install provided DIN rail section to underside of TITAN Versa frame per picture below. Install module and add provided stop block on end.
 - Install in a separate control panel or other locations as needed.





Wiring Digital Inputs/Outputs

 Connect Digital Input/Output wiring per diagram below. An external 24VDC supply (and corresponding OV common) are required for Digital I/O functionality, further explained in each section below.



Digital Inputs

• Wire either +24 or 0 Vdc to COM pins depending on desired digital input type per table below:

Digital Input Type	Wiring to Common (Pins 9 & 10)	
PNP (+24V = Pin Active)	Connect Pin 9 or Pin 10 to 0V common	
NPN (Pin grounded = Active)	Connect Pin 9 or Pin 10 to +24V	

- Pins 9 and 10 are connected internally; only one pin needs to be utilized.
- Wire DIO to DI7 to control circuitry per desired application inputs.

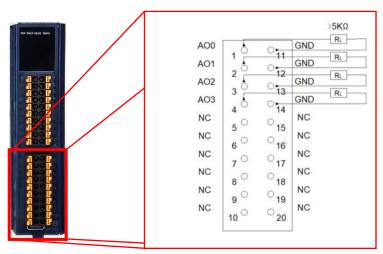
Digital Outputs

- Wire + 24 Vdc to Pin 19 and 0 Vdc to pin 20. Digital Outputs can only be operated in PNP (+24V when active) configuration.
- Wire DO0 to DO7 to control circuitry per desired application outputs.

Wiring Analog Outputs

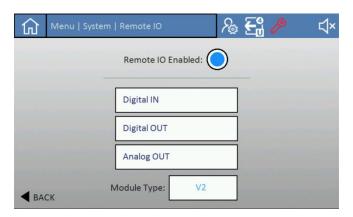
 Connect Analog Output wiring per diagram below. Analog Voltage output is sourced from the device's internal circuitry, no external source voltage is necessary.

Analog Output Wiring



Operation

- Power on the TITAN VERSA leak detector. Note <u>this Remote IO version</u> requires the VERSA Software Revision to 1.6.3 or newer.
- Verify I/O module's PWR LED is on, and RUN LED is flashing rapidly.
- In the Versa software go to Menu > System > Remote IO and set the Remote IO as enabled and module type as V2. See Remote I/O section in the TITAN VERSA Operations Manual (SMT-07-1037) for more detail.



 Input/Output status is indicated on the small OLED screen on the module as follows:

Row	I/O Type:	Order as seen on Display
1	Digital In	7,6,5,4,3,2,1,0
2	Digital Out	7,6,5,4,3,2,1,0
3	Analog Out	3,2,1,0 (Outputs 3 & 2 are not used)



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)	
TV5839	1M Remote IO cable	
TV5840	3M Remote IO cable	
TV5841	5M Remote IO cable	

