

CAN 16-I/O Module (P319)

The Trio CAN 16 Input/ Output module offers a compact DIN rail mounted relay input expansion capability for all Trio *Motion Coordinators*. Using remote I/O on the Trio CANbus can significantly reduce the machine wiring.

Up to 16 I/O modules may be connected to the CAN network which may be up to 100m long. This provides up to 256 distributed bi-directional input/output channels at 24Vdc level. All input points are high level (24V in = ON) all outputs are short-circuit proof and the I/O is completely isolated from the CANbus. P319 modules may be mixed on the same bus, with other types of Trio CAN I/O modules on the same network to build the I/O configuration required for the system.

Convenient disconnect terminals are used for all I/O connections.

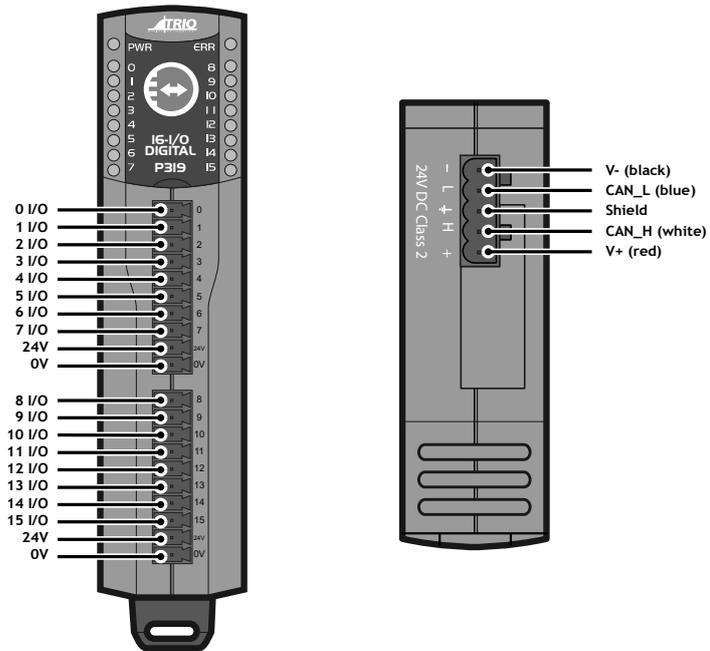
CANBUS

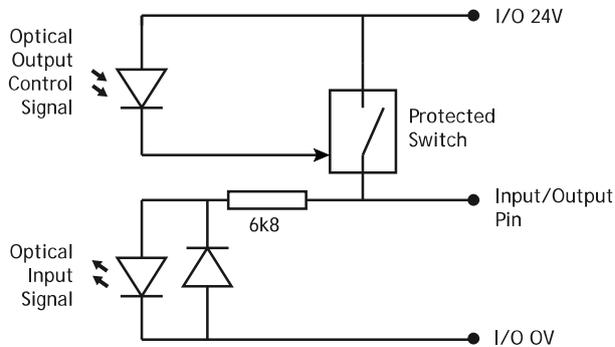
The CANbus port has over voltage and reverse polarity protection. Various protocols can selected using the configuration switches.

24V INPUT/ OUTPUT CHANNELS

The P319 has two banks of eight bi-directional input/ outputs, both banks are electrically isolated and require their own 24V and 0V. Input/output channels are bi-directional, so can be used as an input or output. Bi-directional inputs have a protected 24V sourcing output connected to the same pin. If the output is unused, the pin may be used as an input in the program. The output circuit has electronic over-current protection and thermal protection which shuts the output down when the current exceeds 250mA.

Care should be taken to ensure that the 250mA limit for the output circuit is not exceeded, and that the total load for the group of 8 outputs does not exceed 1 amp.





LED INDICATORS

The green power (PWR) LED and red error (ERR) LED display the status of the CAN I/O module. The actual status displayed will depend on the protocol selected.

The status LEDs marked 0 - 15 represent the I/O channels 0 - 15 of the module. The actual I/O as seen by the *Motion Coordinator* software will depend on the modules' address.

CONFIGURATION SWITCHES

The switches are hidden under the display window. These can be adjusted to set the module address, protocol and data rate.

SPECIFICATION P319

Inputs:	16 24 Volt input channels with 2500V isolation
Outputs:	16 24 Volt output channels with 2500V isolation
Configuration:	16 input/output channels
Output Capacity:	Outputs are rated at 250mA/channel. (1 Amp total/bank of 8 I/O's)
Protection:	Outputs are overcurrent and over temperature protected
Indicators:	Individual status LED's
Address Setting:	Via DIP switches
Power Supply:	24V dc, Class 2 transformer or power source. 18 ... 29V dc / 1.5W.
Mounting:	DIN rail mount
Size:	26mm wide 85mm deep 130mm high
Weight:	128g
CAN:	500kHz, Up to 256 expansion I/O channels
EMC:	EN 61000-6-2 : 2005 Industrial Noise Immunity / EN 61000-6-4: 2007 Industrial Noise
CAN protocol:	Trio CAN I/O or CANopen DS401.