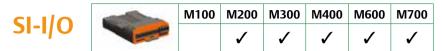
Additional I/O System Integration Modules



Unidrive M's extended I/O interface module increases the number of I/O points on a drive. All connections from the option module to the drive are made via the drive connector. Connections from external equipment to the SI-I/O are made via a 3-way pluggable screw connector for the two relays and an 11-way pluggable screw connector for the digital and analog I/O.

Features include:

- 4 x Digital inputs/outputs
- 3 x Analog inputs (default) / Digital inputs
- 1 x Analog output (default)* / Digital input
- 2 x Relays

Digital I/O

By default, the SI-I/O Module is set up for four programmable digital inputs/outputs. By configuring the analog I/O as digital inputs, it is possible for the SI-I/O module to have four programmable inputs/outputs and also four digital inputs.

The functionality of these terminals is as follows:

- The logic sense selected can be positive (default) or negative
- The logic state of each input is monitored by a read-only parameter
- The logic state can be inverted
- The digital input can be programmed to any suitable destination bit parameter
- The digital output can be sourced from any suitable bit parameter

• The outputs can operate either as a push-pull or an open collector output

The SI-I/O has a maximum output current of 250 mA at 24 V across all four digital outputs.

Analog I/O

By default, the SI-I/O is set-up for three single-ended analog inputs and one analog output or one high resolution* differential analog input*, one single-ended analog input and one analog output.

Analog inputs 1 and 2 can only be configured as ± 10 Vdc voltage inputs or digital inputs. When both are configured as analog voltage inputs, they can be used as a single high resolution differential analog input.

Analog input 3 can operate in voltage mode (± 10 Vdc), current mode (0 to 20 mA) or as a digital input.

Analog output 1^{*} can operate in voltage mode (±10 Vdc), current mode (0 to 20 mA) or as a digital input.

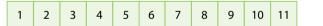
Relays

The two relays can be used to convey the logic state of any suitable parameter to external equipment. The logic state is processed as follows:

- A suitable source parameter is assigned to each relay
- The logic state can be inverted
- The state of the relay is monitored by a parameter

* Only supported by M600 and M700

Terminal descriptions



PL1		
Terminal	Function	
1	0 V common	
2	Digital input/output 1	
3	Digital input/output 2	
4	Digital input/output 3	
5	Digital input/output 4	
6	0 V common	
7	Analog input 1/digital input 5	
8	Analog input 2/digital input 6	
9	Analog input 3/digital input 7	
10	0 V common	
11	Analog output 1/digital input 8	

PL2		
Terminal	Function	
21	Relay 1	
22	Relay common	
23	Relay 2	

22

23

21



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