

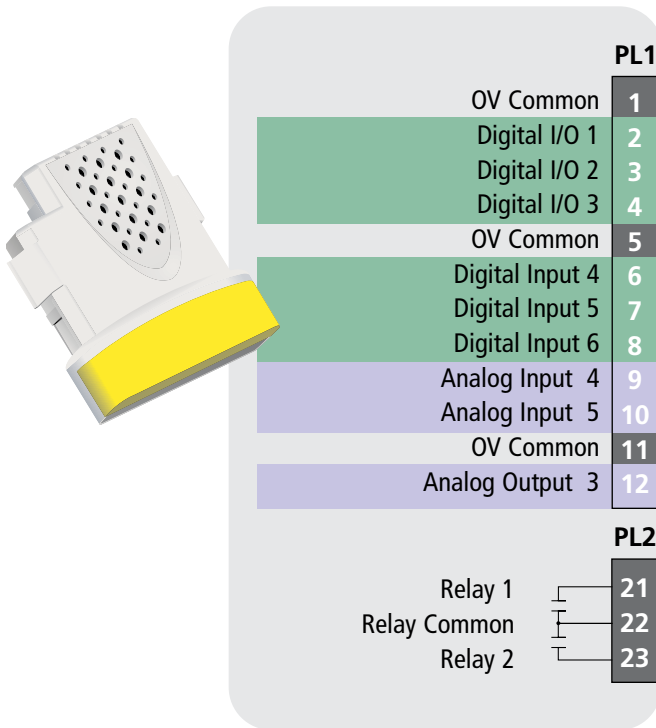
AC Drive Options & Accessories

Input/Output Modules

SM-I/O PLUS

This module provides expanded digital and analog I/O.

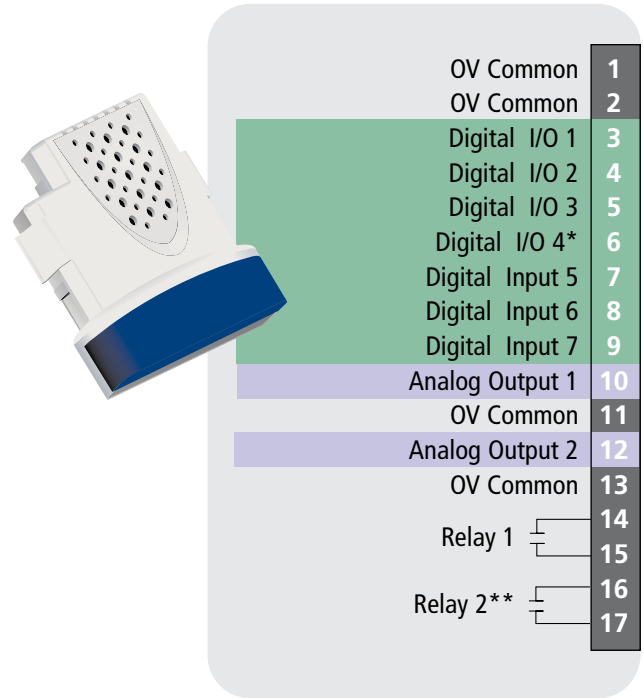
- 2 Analog Inputs (10-bit plus sign, ±10V)
- 1 Analog Output (10-bit plus sign, ±10V)
- 3 Digital Input/Outputs
- 3 Digital Inputs
- 2 Relays (2A @ 240 VAC, 4A @ 30 VDC)



SM-I/O 24V

The SM-I/O 24V is designed as an over voltage protected I/O Solution Module. The Solutions Module is able to withstand a +48V input voltage being applied to the +24V rated Digital I/O terminals.

- 2 x Analog Current Outputs
- 4 x Digital Input/Outputs
- 3 x Digital Inputs
- 2 x Relays** (30 VDC contact rating)



* Digital Input only with Commander SK

** Not available on Commander SK



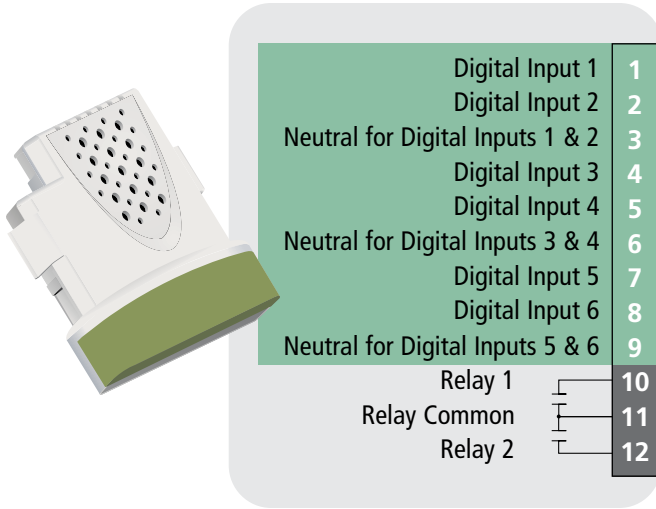
LEGEND

- Programmable Analog
- Programmable Digital
- Non-Programmable

SM-I/O 120V

This module provides digital I/O rated for 120 or 240 VAC. These I/O conform to IEC 61131-2 120 VAC standard.

- 6 Digital Inputs (120 VAC or 3 Digital Inputs @ 240 VAC)
- 2 Relays (2A @ 120 VAC, 4A @ 30 VDC)

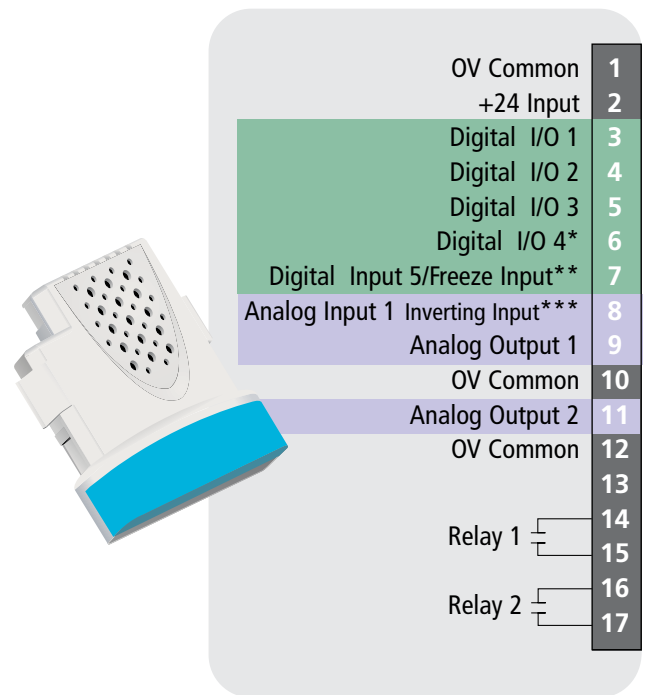


SM-I/O PELV

This module provides PELV (Protective Extra Low Voltage) double insulated digital and analog I/O to meet IEC 61131-2, Clause 3.3.1 Type as well as NAMUR NE37 specifications for chemical industry applications.

- 1 Analog Input (bipolar 0-10V, 4-20 mA or 0-20 mA)
- 2 Analog Outputs (4-20 mA or 0-20 mA)
- 1 Digital Input with freeze function
- 4 Digital Input/Outputs
- 2 Relays (2A @ 240 VAC, 4A @ 30 VDC)

Note: SM-I/O PELV module requires an external 24Vdc power supply rated at 150mA when all outputs are loaded. See the Options & Accessories section under 'Logic and I/O Power Supplies' for 24V dc power supply listings.



Installing Solution Modules is a SNAP!



* Digital Input only with Commander SK
 ** Freeze Input not available with Commander SK
 *** Current mode only

LEGEND

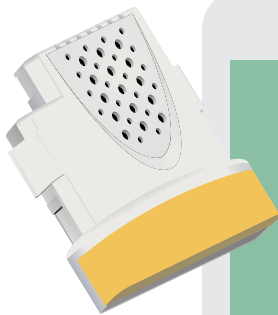
- Programmable Analog
- Programmable Digital
- Non-Programmable

SM-I/O 32



This module provides expanded digital I/O.

- 32 Digital Inputs/Outputs
- Includes Breakout Board and Cable
- Access to all I/O requires the use of SyPTLite or SyPTPro software



SM-I/O 32 digital outputs

Each group of 4 outputs can supply a total of 16mA, so each output is able to supply at least 4mA. A digital output can supply up to a maximum of 16mA as long as the total output current for the group does not exceed 16mA, (for example, one digital I/O set as an output and the other three digital I/O in the group set to inputs).

Recommended relay
TYCO Electronics Schrack ST3P2LC4

	PL1
Digital Input/Output 1	1
Digital Input/Output 2	2
Digital Input/Output 3	3
Digital Input/Output 4	4
Digital Input/Output 5	5
Digital Input/Output 6	6
Digital Input/Output 7	7
Digital Input/Output 8	8
Digital Input/Output 9	9
Digital Input/Output 10	10
Digital Input/Output 11	11
Digital Input/Output 12	12
Digital Input/Output 13	13
Digital Input/Output 14	14
Digital Input/Output 15	15
Digital Input/Output 16	16
Digital Input/Output 17	17
Digital Input/Output 18	18
Digital Input/Output 19	19
Digital Input/Output 20	20
Digital Input/Output 21	21
Digital Input/Output 22	22
Digital Input/Output 23	23
Digital Input/Output 24	24
Digital Input/Output 25	25
Digital Input/Output 26	26
Digital Input/Output 27	27
Digital Input/Output 28	28
Digital Input/Output 29	29
Digital Input/Output 30	30
Digital Input/Output 31	31
Digital Input/Output 32	32
+24V Out	33
OV	34
OV	35
OV	36
OV	37

[= output group

SM-I/O LITE

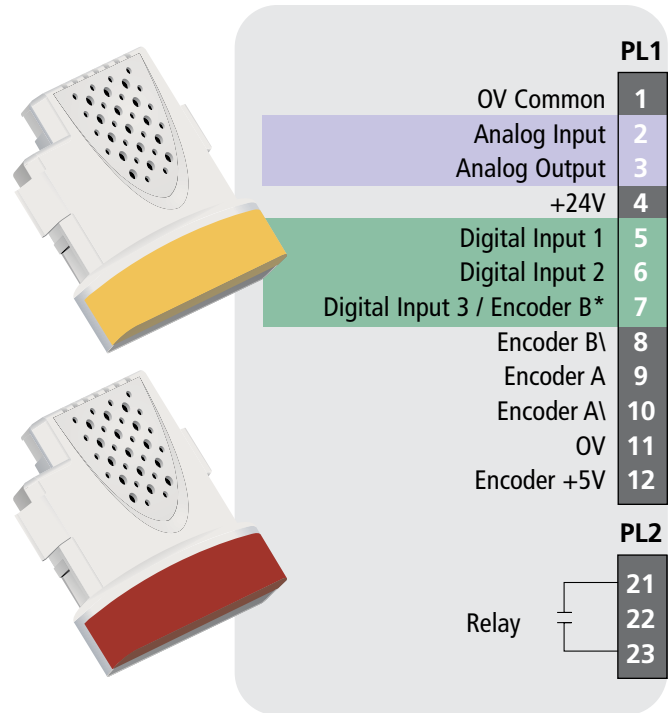
This module provides expanded digital and analog I/O plus encoder reference.

- 1 Analog Input (11-bit plus sign, $\pm 10V$, 4-20 mA, or 0-20 mA)
- 1 Analog Output (13-bit, 0-10V, 4-20 mA, or 0-20 mA)
- 3 Digital Inputs
- 1 Relay (2A @ 240 VAC, 4A @ 30 VDC)
- Quadrature encoder reference input

SM-I/O TIMER

As per SM-I/O LITE above, but with the addition of a Real Time Clock and Calendar for scheduling drive events.

- Access to Year, Month, Day, Hour, Minute, Second, and Daylight Savings Mode



LEGEND

- Programmable Analog
- Programmable Digital
- Non-Programmable

* When terminal 7 is used as an encoder input, digital input 3 is not available