

MAPLE MODULAR PLC SERIES - DIGITAL IO MODULES



IO-SD0016R



IO-SD0032PPWM*



IO-SD3200I



IO-SD1616PI

MODULE LIST

Category	Part Number	I/O Points	Detail
Digital Input Module	IO-SD3200I	32 Solid State Transistor Sink/Source	24 VDC Push-in Terminal Connector
	IO-SD0032PI	32 Solid State Transistor Source	12/24 VDC Push-in Terminal Connector
Digital Output Module	IO-SD0016R	16 Relay Outputs	24 VDC/220 VAC Screw-based Terminals
	IO-SD0032PPWM	32 Solid State Transistor - Source (Includes 12 PWM Outputs)	12/24 VDC, Terminal Block and Cable Included Frequency: 1–4000 Hz (pps) Duty Cycle Resolution: 1/1000
Digital Input/ Digital Output Module	IO-SD1616PI	16 Solid State Transistor Inputs 16 Solid State Transistor Outputs Source	Input: 24 VDC Output: 12/24 VDC Push-in Terminal Connector
	IO-SD0808R	8 Solid State Transistor Sink/Source 8 Relay Outputs	Input: 24 VDC Output: 24 VDC/220VAC Screw-based Terminal

FEATURES

- Compatible expansion with any Maple Modular PLC CPU.
- PWM available with up to 4 kHz.
- Group-isolated.
- Up to 16 discrete inputs and 16 discrete outputs.
- Push-in and screw-based connectors available.
- Relay, sink, and source discrete outputs available.

BENEFITS

- Diagnostic LEDs.
- Automatically detects sink/source input, no programming required.

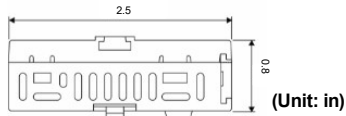
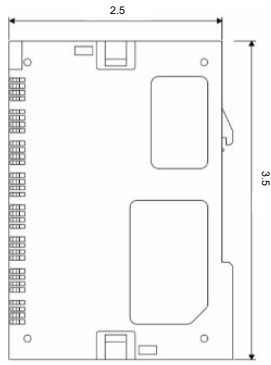
FUNCTIONAL

Item	Solid State Transistor Input	Solid State Transistor Output	Relay Output
Rated I/O Voltage	24 VDC	12/24 VDC	24 VDC/220 VAC
Rated I/O Current	4 mA	1 point = 0.2 A 1 COM = 2 A	1 point = 2 A 1 COM = 5 A

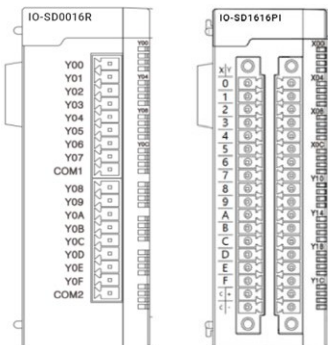
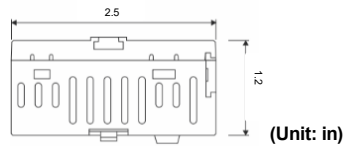
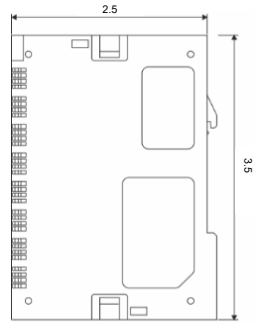


*ACC-TB32M (Terminal Block) and ACC-SCB15M (Terminal Block Cable) included for IO-SD0032PPWM

IO-SD3200I
IO-SD0032PI
IO-SD0032PPWM



IO-SD0808R
IO-SD1616PI
IO-SD0016R



Response Time	Off -> On	3 ms or less	1 ms or less	10 ms or less
	On -> Off	3 ms or less	1 ms or less	5 ms or less
Insulation Method		Photocoupler		Relay
Digital Input Threshold		Digital Input ON 24 VDC		

- There must be 32 or less relay outputs per MODULAR PLC chassis.
- The maximum number of IO-SD0016R expansion modules is 2.
- The maximum number of IO-SD0808R expansion modules is 4.

Items	PWM Output (IO-SD0032PPWM)
Frequency Range (Guarantee Duty Cycle)	1 – 4000 Hz (pps)
Duty Cycle Resolution	0.0 – 100.0% (1/1000)
RAMP Control	Frequency RAMP, Duty Cycle RAMP Control

PHYSICAL

Part Number	IO-SD3200I IO-SD0032PI IO-SD0032PPWM	IO-SD1616PI	IO-SD0808R IO-SD0016R
Product Dimensions (H x W x D)	3.5 x 0.8 x 2.5 in (90 x 20 x 63 mm)	3.5 x 1.2 x 2.5 in (90 x 30 x 63 mm)	
Product Weight	0.16 lb (74g)	0.26 lb (116 g)	0.30 lb (134 g)

ENVIRONMENTAL

Item	Specification	Standards
Operating Temperature	-10 – +65 °C (+14 – +149 °F)	-
Storage Temperature	-25 – +80 °C (-13 – +176 °F)	-
Operating/Storage Relative Humidity	5 – 95% Non-condensing	-
Shock	15G	IEC 61131-2
Vibration	0.5G - Continuous 1G - Discontinuous	IEC 61131-2
Square Wave Impulse Noise	±2 kV	-
ESD Immunity	±4 kV - Contact Discharges ±8 kV - Air Discharges	IEC 61131-2 IEC 61000-4-2
Radiated Electromagnetic Immunity	80–1000 MHz, 10 V/m	IEC 61131-2 IEC 61000-4-3
Surge Transient Immunity	2 kV - CPU, Power 2 kV - Digital I/O (VAC) 1 kV - Digital I/O (VDC) 1 kV - Communication	IEC 61131-2 IEC 61000-4-4