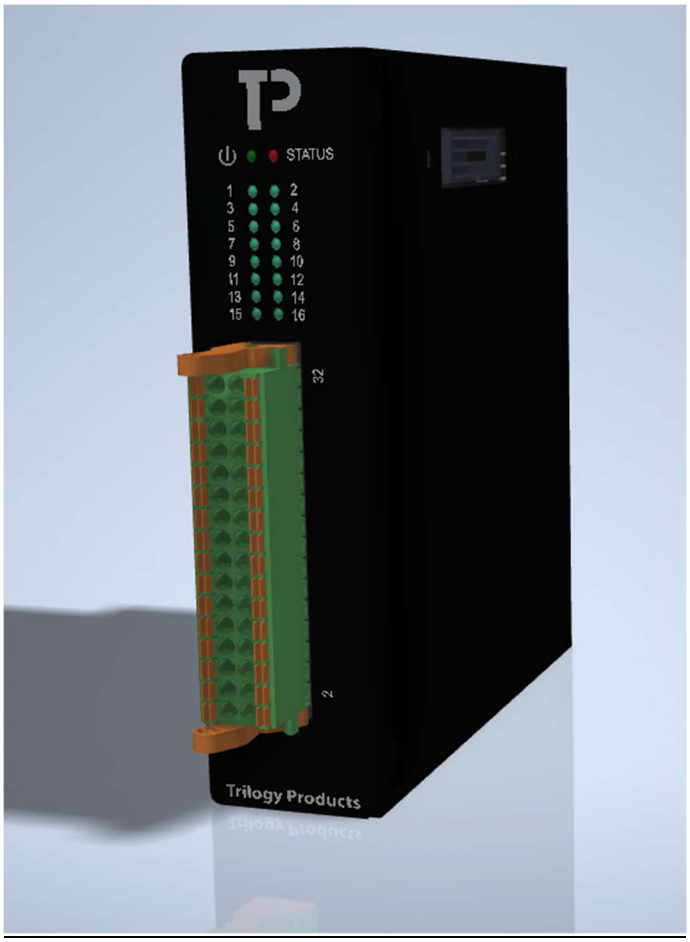
Trilogy Products

SiCLP-IO-xxx

Compact Logic Processor I/O Modules

FEATURES

- **Connects to SiCLP Logic Processor for I/O Expansion**
- **Many Different I/O Module Variants**
  - **16 Digital Input**
  - **16 Digital Output (solid state)**
  - **16 Digital Output (relay contact)**
  - **8 Analog Input**
  - **8 Digital Input/8 Relay Output**
- **2000VAC Isolation Input Primary to Secondary**
- **Meets AREMA 11.5.1 for Class C Equipment**



OVERVIEW

The Trilogy Products SiCLP-IO-xxx modules are expansion I/O modules for the SiCLP Compact Logic Processor. Each module adds a bank of a specific type of inputs or outputs to the system and is automatically recognized by the processor. Power and communication is provided via the side-to-side connectors, which allow connection of multiple I/O modules to one processor.

Power is provided via the side-to-side connector, so only field power, where applicable for specific I/O module types, must be provided on the field wiring connector. Certain modules, such as the solid state digital output module, feature overcurrent protection to prevent damage to the output drivers.

ORDERING INFORMATION

Model Number	Function	Description
SiCLP-IO-16DI	16 Digital Input	16 optically isolated DC inputs accepting 9-36VDC
SiCLP-IO-16DO-SS	16 Solid State Digital Output	Arranged as two banks of 8 outputs, 5.5-40VDC field voltage, 2A per channel
SiCLP-IO-16DO-R	16 Relay Digital Output	Arranged as 16 independent SPST-NO contacts, 5A per channel, 125VDC/277VAC, 5A max per channel
SiCLP-IO-8AI	8 Analog Input	8 DC analog inputs, selectable 0-12V voltage or 4-20mA current (250 ohm sense resistance).
SiCLP-IO-8DI-8DO	8 Digital Input 8 Relay Output	Arranged as 8 independent SPST-NO contacts, 5A per channel, 125VDC/277VAC, 5A max per channel

FUNCTIONS

The following I/O module variants are offered. Not all modules may be listed here. See the user's guide for the specific module of interest for operating specifications and connector pinouts.

MECHANICAL SPECIFICATIONS

Dimensions ——— 4.75in D x 5in H x 1.2in W
Operating Temperature Range ——— -40°C to+70°C

ELECTRICAL SPECIFICATIONS

Max Connector Wire Gauge ——— #16 AWG
Mating I/O Connector ——— Phoenix 1790438
Maximum Power Consumption ——— 7W @9VDCin
Primary to I/O Ports Isolation ——— 2000Vrms/1 min.

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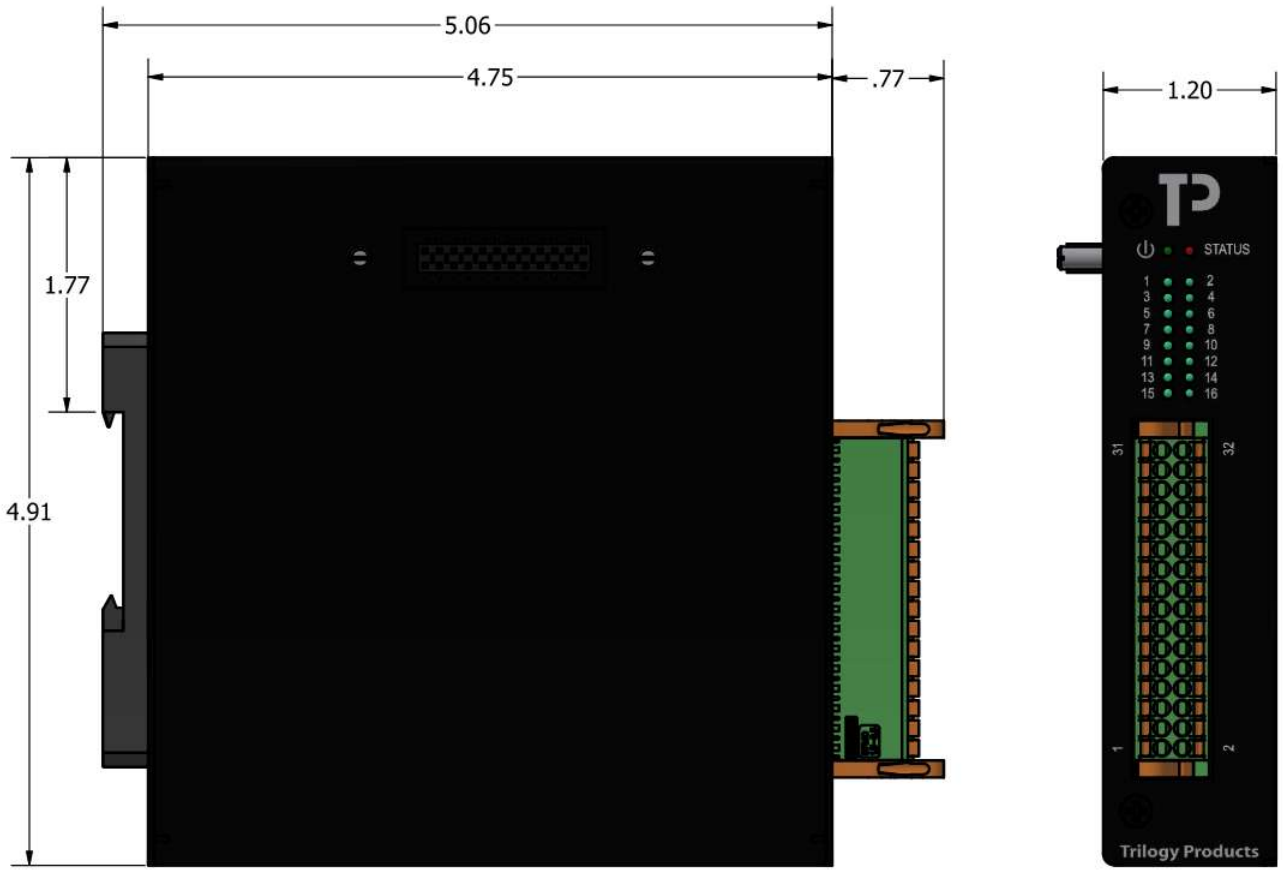
DIMENSIONS



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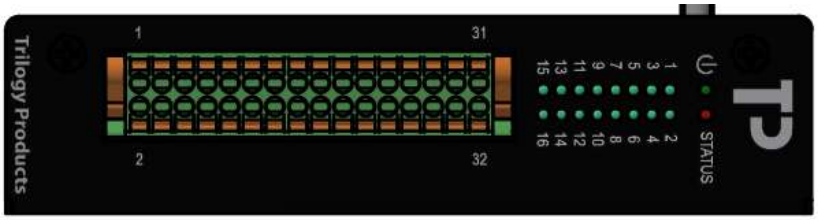
CONNECTOR PINOUTS



Pin #	SiCLP-IO-16DI	SiCLP-IO-16DO-SS	SiCLP-IO-16DO-R	SiCLP-IO-8AI	SiCLP-IO-8DI-8DO
1	INPUT 1+	OUTPUT 1+	OUTPUT 1 NO	VOLTAGE INPUT 1+	INPUT 1+
2	INPUT 1-	OUTPUT 2+	OUTPUT 1 COM	VOLTAGE/CURRENT INPUT 1-	INPUT 1-
3	INPUT 2+	OUTPUT 3+	OUTPUT 2 NO	CURRENT INPUT 1+	INPUT 2+
4	INPUT 2-	OUTPUT 4+	OUTPUT 2 COM	VOLTAGE INPUT 2+	INPUT 2-
5	INPUT 3+	OUTPUT 5+	OUTPUT 3 NO	VOLTAGE/CURRENT INPUT 2-	INPUT 3+
6	INPUT 3-	OUTPUT 6+	OUTPUT 3 COM	CURRENT INPUT 2+	INPUT 3-
7	INPUT 4+	OUTPUT 7+	OUTPUT 4 NO	VOLTAGE INPUT 3+	INPUT 4+
8	INPUT 4-	OUTPUT 8+	OUTPUT 4 COM	VOLTAGE/CURRENT INPUT 3-	INPUT 4-
9	INPUT 5+	VOUT1+	OUTPUT 5 NO	CURRENT INPUT 3+	INPUT 5+
10	INPUT 5-	GND1	OUTPUT 5 COM	VOLTAGE INPUT 4+	INPUT 5-
11	INPUT 6+	VOUT1+	OUTPUT 6 NO	VOLTAGE/CURRENT INPUT 4-	INPUT 6+
12	INPUT 6-	GND1	OUTPUT 6 COM	CURRENT INPUT 4+	INPUT 6-
13	INPUT 7+	VOUT1+	OUTPUT 7 NO	NO CONNECTION	INPUT 7+
14	INPUT 7-	GND1	OUTPUT 7 COM	NO CONNECTION	INPUT 7-
15	INPUT 8+	NO CONNECTION	OUTPUT 8 NO	NO CONNECTION	INPUT 8+
16	INPUT 8-	NO CONNECTION	OUTPUT 8 COM	NO CONNECTION	INPUT 8-
17	INPUT 9+	NO CONNECTION	OUTPUT 9 NO	NO CONNECTION	OUTPUT 1 NO
18	INPUT 9-	NO CONNECTION	OUTPUT 9 COM	NO CONNECTION	OUTPUT 1 COM
19	INPUT 10+	OUTPUT 9+	OUTPUT 10 NO	NO CONNECTION	OUTPUT 2 NO
20	INPUT 10-	OUTPUT 10+	OUTPUT 10 COM	VOLTAGE INPUT 5+	OUTPUT 2 COM
21	INPUT 11+	OUTPUT 11+	OUTPUT 11 NO	VOLTAGE/CURRENT INPUT 5-	OUTPUT 3 NO
22	INPUT 11-	OUTPUT 12+	OUTPUT 11 COM	CURRENT INPUT 5+	OUTPUT 3 COM
23	INPUT 12+	OUTPUT 13+	OUTPUT 12 NO	VOLTAGE INPUT 6+	OUTPUT 4 NO
24	INPUT 12-	OUTPUT 14+	OUTPUT 12 COM	VOLTAGE/CURRENT INPUT 6-	OUTPUT 4 COM
25	INPUT 13+	OUTPUT 15+	OUTPUT 13 NO	CURRENT INPUT 6+	OUTPUT 5 NO
26	INPUT 13-	OUTPUT 16+	OUTPUT 13 COM	VOLTAGE INPUT 7+	OUTPUT 5 COM
27	INPUT 14+	VOUT2+	OUTPUT 14 NO	VOLTAGE/CURRENT INPUT 7-	OUTPUT 6 NO
28	INPUT 14-	GND2	OUTPUT 14 COM	CURRENT INPUT 7+	OUTPUT 6 COM
29	INPUT 15+	VOUT2+	OUTPUT 15 NO	VOLTAGE INPUT 8+	OUTPUT 7 NO
30	INPUT 15-	GND2	OUTPUT 15 COM	VOLTAGE/CURRENT INPUT 8-	OUTPUT 7 COM
31	INPUT 16+	VOUT2+	OUTPUT 16 NO	CURRENT INPUT 8+	OUTPUT 8 NO
32	INPUT 16-	GND2	OUTPUT 16 COM	INPUT 8-	OUTPUT 8 COM

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