

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

I/O MODULES STANDARD AC OUTPUT

OPTO 22

DATA SHEET

page 1/5

Form 449-030616

Description

AC output modules are used for controlling or switching AC loads. Each module provides 4,000 V_{rms} of optical isolation between the field devices and the control logic. With the exception of the OAC5A5 module, all AC output modules are equivalent to a single pole, single throw, normally open contact (FORM A, SPST-NO, Make). The OAC5A5 is equivalent to a single pole, single throw, normally closed contact (FORM B, SPST-NC, Break). All AC output modules feature zero voltage turn-on and zero current turn-off.

Typical uses and applications for AC output modules include switching the following loads:

- Relays
- Solenoids
- Motor Starters
- Heaters
- Lamps or Indicators

Part Numbers	Description
OAC5	AC Output 12-140 VAC, 5 VDC Logic
OAC5A	AC Output 24-280 VAC, 5 VDC Logic
OAC5A5	AC Output 24-280 VAC, 5 VDC Logic, NC
OAC15	AC Output 12-140 VAC, 15 VDC Logic
OAC15A	AC Output 24-280 VAC, 15 VDC Logic
OAC24	AC Output 12-140 VAC, 24 VDC Logic
OAC24A	AC Output 24-280 VAC, 24 VDC Logic



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Specifications

General/Applies to all Models

Current Rating @ 45° C Ambient @ 70° C Ambient	3 amps 2 amps
UL Motor Load Rating	1.5 amps
One Cycle Surge	80 amps peak
Peak Repetitive Voltage	500 Volts
Operating Ambient Temperature	-30° to 70° C
Isolation Input-to-Output	4,000 Vrms
Minimum Load Current	20 milliamps
Operating Frequency	25 - 65 Hz
Turn-on Time	1/2 cycle maximum-zero voltage
Turn-off Time	1/2 cycle maximum-zero current
DV/DT - Off-State	200 volts/microseconds
DV/DT - Commutating	Snubbed for rated 0.5 power factor load
Output Voltage Drop Maximum Peak	1.6 volts
Off-State Leakage @ Nominal Voltage - 60 Hz	5 milliamps rms 2.5 milliamps rms for OAC5A OAC15A, and OAC24A @120 VAC

Module Specifications

	Units	OAC5	OAC5A	OAC5A5 (NC)	OAC15	OAC15A	OAC24	OAC24A
Line Voltage - Nominal	VAC	120	240	120/240	120	240	120	240
Operating Voltage Range	VAC	12-140	24 - 280	24 - 280	12 - 140	24 - 280	12 - 140	24 - 280
Logic Voltage - Nominal	VDC	5	5	5	15	15	24	24
Logic Voltage Range (Vcc)*	VDC	2.5-8	2.5 - 8	2.5 - 8	9 - 16	9 - 16	18 - 32	18 - 32
Logic Pickup Voltage*	VDC	2.5	2.5	2.5	9	9	18	18
Logic Dropout Voltage	VDC	1	1	1	1	1	1	1
Logic Input Current-@ Normal Logic Voltage	mA	12	12	12	15	15	18	18
Control Resistance (R _c in schematic diagram)	Ohms	220	220	220	1K	1K	2.2K	2.2K

* Module only

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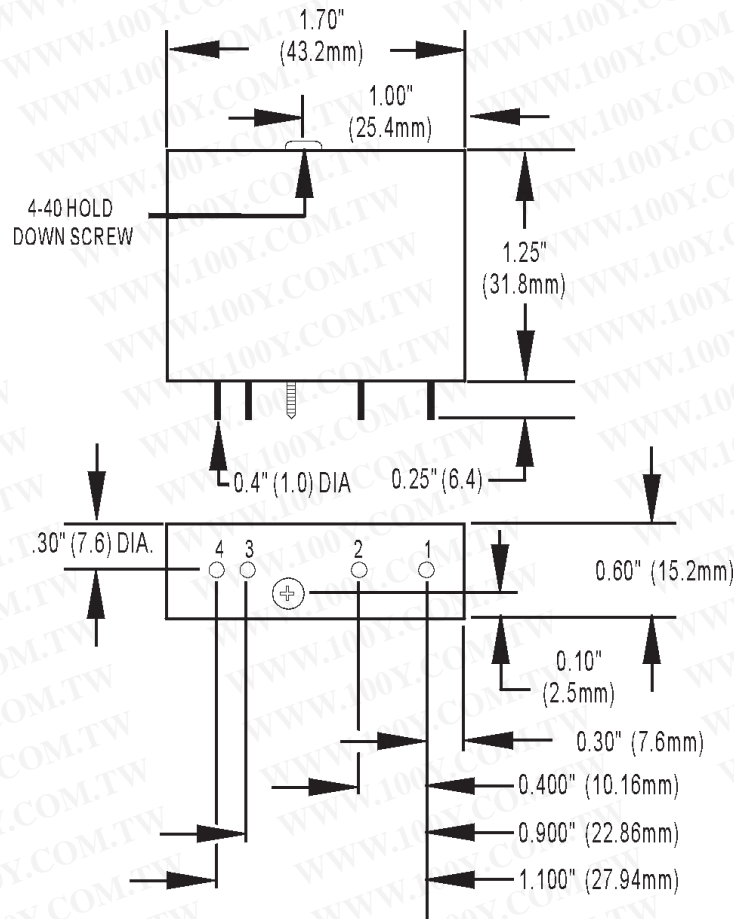
Form 449-030616

Dimensions

I/O MODULES STANDARD AC OUTPUT

page 3/5

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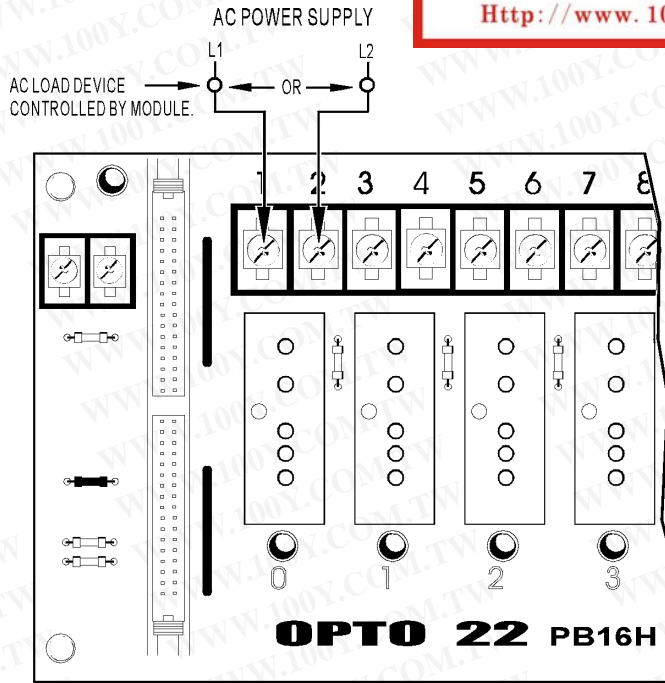
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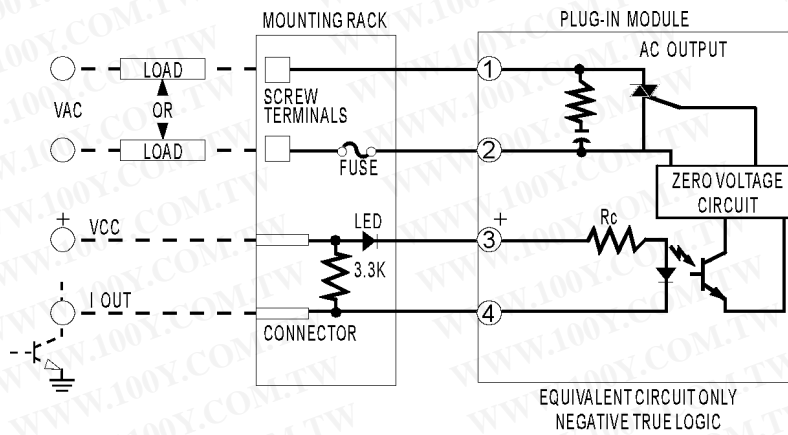
page 4/5

Connections CONNECTION DIAGRAM

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Schematics



* SNUBBER circuit must be used on inductive loads.

Products

Opto 22 produces a broad array of reliable, flexible hardware and software for industrial automation and remote monitoring. Opto 22's diverse and complete product range allows you to buy in at any level, from solid-state relays to fully integrated control systems.

SNAP Ultimate I/O™

The most intelligent and powerful I/O system available, SNAP Ultimate I/O effectively combines I/O, control, networking, and enterprise connectivity into a single cohesive system. SNAP Ultimate I/O has the ability to communicate *directly* with enterprise systems, eliminating the need for complex middleware and the significant investments associated with it. Software and utilities for use with SNAP Ultimate I/O include ioControl™ flowchart-based control programming software and ioDisplay™, a Windows-based HMI development package.



SNAP Ethernet I/O™

Using SNAP Ethernet I/O systems, you can connect a wide variety of electronic and mechanical devices such as lights, temperature and pressure sensors, motors, and serial devices to computers via a standard Ethernet network, wireless LAN, or even the Internet.



SNAP-IT™ Systems

A packaged solution that brings industry-proven SNAP Ethernet technology to your enterprise faster and easier than ever before, SNAP-IT is a network-ready hardware appliance that connects environmental, device, and other sensors directly to your enterprise applications. The connected devices can then be controlled and real-time operational data can be collected, monitored, and delivered via a standard Ethernet, wireless LAN, or dial-up network.



Opto 22 FactoryFloor™ Software

FactoryFloor is an integrated suite of industrial control software applications designed to help you develop control automation solutions, build easy-to-use operator interfaces, and expand your manufacturing systems' connectivity.



Other Software and Hardware

Software developer kits (SDKs), diagnostic utilities, support for the Linux operating system, and a full line of SNAP industrial controllers are also available from Opto 22.



Quality

In delivering hardware and software solutions for worldwide device management and control, Opto 22 retains the highest commitment to quality.

We do no statistical testing; each product is made in the U.S.A. and is tested twice before leaving our 160,000 square-foot manufacturing facility in Temecula, California. That's why we can guarantee solid-state relays and all optically-isolated I/O modules *for life*.

Product Support

Opto 22's Product Support Group offers comprehensive technical support for Opto 22 products. The staff of support engineers represents years of training and experience, and can assist with a variety of project implementation questions. Product support is available in English and Spanish from Monday through Friday, 8 a.m. to 5 p.m. Pacific Standard Time.

Opto 22 Web Sites

www.opto22.com
www.m2m.opto22.com
www.internetio.com (live Internet I/O demo)
www.ultimateio.com (SNAP Ultimate I/O information)

Other Resources

- OptoInfo CDs
- Ongoing, up-to-date training
- Integration support
- FaxBack service: (800) 474-OPTO

About Opto 22

Founded in 1974, Opto 22 is a leading manufacturer



of high-quality hardware and software solutions for connecting real-world devices with computer networks. Customer applications include enterprise management, remote monitoring and control, industrial automation, and data acquisition. Opto 22 was one of the first companies to recognize and implement solutions involving networks, computers, and real-world equipment and devices. More than 75 million devices worldwide are reliably connected to Opto 22 systems.