OPTO 22

DATA SHEET

Form 480-120731

Description

Part Numbers	Description
PB16J	DC Input 4–6VDC 16-Channel Integral
PB16K	DC Input 16–28VDC 16-Channel Integral

----OBSOLETE----

NOTE: The PB16J and PB16K are obsolete and no longer available as of August 2012, due to the unavailability of essential parts.

The PB16J and PB16K DC input racks provide 16 channels of optically-isolated inputs for sensing ON/OFF DC voltage levels. All input circuitry is on the board and all channels are identical. There is no provision on the board for plug-in modules. Both models feature an extra row of terminal strips for power distribution. The PB16J and PB16K racks are smaller than a standard PB16H I/O mounting rack; the result is a 40 percent savings in cabinet space. Indicators are provided for all input channels and power.
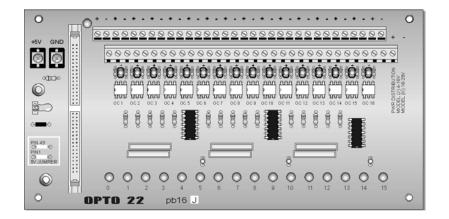
Both the PB16J and PB16K racks feature a 50-pin header connector for easy interface to computer parallel I/O ports via 50-conductor ribbon cables. The 50-pin connector also allows direct connection to Mistic, Optomux, and Pamux brain boards.

The PB16J and PB16K DC Input racks are useful for connecting to the following devices:

- BCD Devices
- TTL Level Devices
- Thumbwheel Switches
- Bar Code Readers

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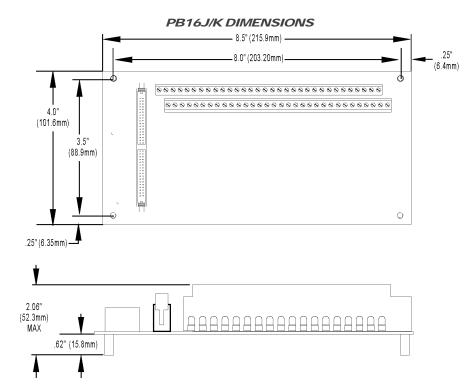
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Specifications

PB16J/K Specifications

	PB16J	**PB16K**
Input Line Voltage	4–16 VDC	16–28 VDC
Input Current	3.3 mA @ 4 VDC 16 mA @ 16 VDC	3.4 mA @ 16 VDC 6.3 mA @ 28 VDC
Isolation Input-to-Output Channel-to-Channel	4,000 Vrms 300 Vrms continuous	4,000 Vrms 300 Vrms continuous
Capacitance Input-to-Output	8 pF/channel	8 pF/channel
Input Allowed For No Output	1 VDC (0.2 mA)	1 VDC (0.2 mA)
Turn-on Time	2.5 ms maximum	3 ms maximum
Turn-off Time	3.5 ms maximum	4.5 ms maximum
Logic Supply Voltage	4.5–6 VDC	4.5–6 VDC
Logic Supply Current	190 mA @ 5 VDC	190 mA @ 5 VDC
Operating Ambient Temperature	- 30° to 70° C	- 30° to 70° C

Dimensions

PB16J/K DIMENSIONS

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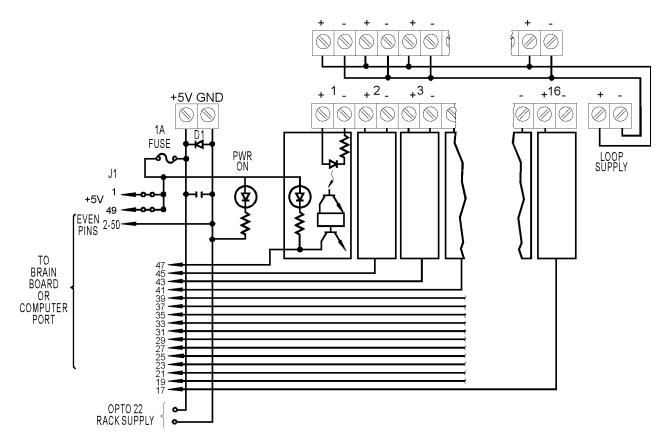
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Connections

More About Opto 22

Products

Opto 22 develops and manufactures reliable, flexible, easy-to-use hardware and software products for industrial automation, energy management, remote monitoring, and data acquisition applications.

OptoEMU Energy Management System

The easy-to-use OptoEMU Sensor monitors electrical energy use in your facility and delivers detailed, real-time data you can see and analyze. The Sensor can monitor energy data from pulsing meters, electrical panels or subpanels, and equipment. View energy data online using a software service or incorporate the data into your control system for complete energy management.

SNAP PAC System

Designed to simplify the typically complex process of selecting and applying an automation system, the SNAP PAC System consists of four integrated components:

- SNAP PAC controllers
- PAC Project™ Software Suite
- SNAP PAC brains
- SNAP I/O™

SNAP PAC Controllers

Programmable automation controllers (PACs) are multifunctional, modular controllers based on open standards.

Opto 22 has been manufacturing PACs for over two decades. The standalone SNAP PAC S-series and the rack-mounted SNAP PAC R-series both handle a wide range of digital, analog, and serial functions for data collection, remote monitoring, process control, and discrete and hybrid manufacturing.

SNAP PACs are based on open Ethernet and Internet Protocol (IP) standards, so you can build or extend a system easily, without the expense and limitations of proprietary networks and protocols.

PAC Project Software Suite

Opto 22's PAC Project Software Suite provides full-featured, cost-effective control programming, HMI (human machine interface) development and runtime, OPC server, and database connectivity software for your SNAP PAC System.

Control programming includes both easy-to-learn flowcharts and optional scripting. Commands are in plain English; variables and I/O point names are fully descriptive.

PAC Project Basic offers control and HMI tools and is free for download on our website, www.opto22.com. PAC Project Professional, available for separate purchase, adds

OptoOPCServer, OptoDataLink, options for controller redundancy or segmented networking, and support for legacy Opto 22 serial *mistic*™ I/O units.

SNAP PAC Brains

While SNAP PAC controllers provide central control and data distribution, SNAP PAC brains provide distributed intelligence for I/O processing and communications. Brains offer analog, digital, and serial functions, including thermocouple linearization; PID loop control; and optional high-speed digital counting (up to 20 kHz), quadrature counting, TPO, and pulse generation and measurement.

SNAP I/O

I/O provides the local connection to sensors and equipment. Opto 22 SNAP I/O offers 1 to 32 points of reliable I/O per module, depending on the type of module and your needs. Analog, digital, and serial modules are all mixed on the same mounting rack and controlled by the same processor (SNAP PAC brain or rack-mounted controller).

Quality

Founded in 1974, Opto 22 has established a worldwide reputation for high-quality products. All are made in the U.S.A. at our manufacturing facility in Temecula, California. Because we do no statistical testing and each part is tested twice before leaving our factory, we can guarantee most solid-state relays and optically isolated I/O modules for life.

Free Product Support

Opto 22's California-based Product Support Group offers free, comprehensive technical support for Opto 22 products. Our staff of support engineers represents decades of training and experience. Support is available in English and Spanish by phone or email, Monday–Friday, 7 a.m. to 5 p.m. PST.

Additional support is always available on our website: how-to videos, OptoKnowledgeBase, self-training guide, troubleshooting and user's guides, and OptoForums.

In addition, hands-on training is available for free at our Temecula, California headquarters, and you can register online.

Purchasing Opto 22 Products

Opto 22 products are sold directly and through a worldwide network of distributors, partners, and system integrators. For more information, contact Opto 22 headquarters at 800-321-6786 or 951-695-3000, or visit our website at www.opto22.com.

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