NetBotz® Data Sheet

NetBotz External Integration Products

EIP 4-20mA Sensor Pod

EIP 0-5V Cable or EIP Dry Contact Cable

EIP Power Control Pod

EIP Output Relay Pod

EIP CCTV Adapter Pod

The NetBotz Solution protects a critical area and its valuable contents, like IT equipment, from damage due to water leaks, high or low temperatures, smoke or dust, humidity, vandalism, theft, and many more dangerous physical factors by providing early warning of these conditions in conjunction with a centralized management platform and visual audit log.

In addition to our broad family of sensor products - including temperature, humidity, airflow, liquids, particles, and electrical current - NetBotz supports a range of products to integrate third party products into the NetBotz management system including:

- Extreme temperature sensors
- Liquid flow rate and level sensors
- Gas sensors
- Pressure sensors
- Air velocity sensors
- Output control devices
- Door locks, light switches, and flashing lights
- Power Switching
- Third party CCTV cameras

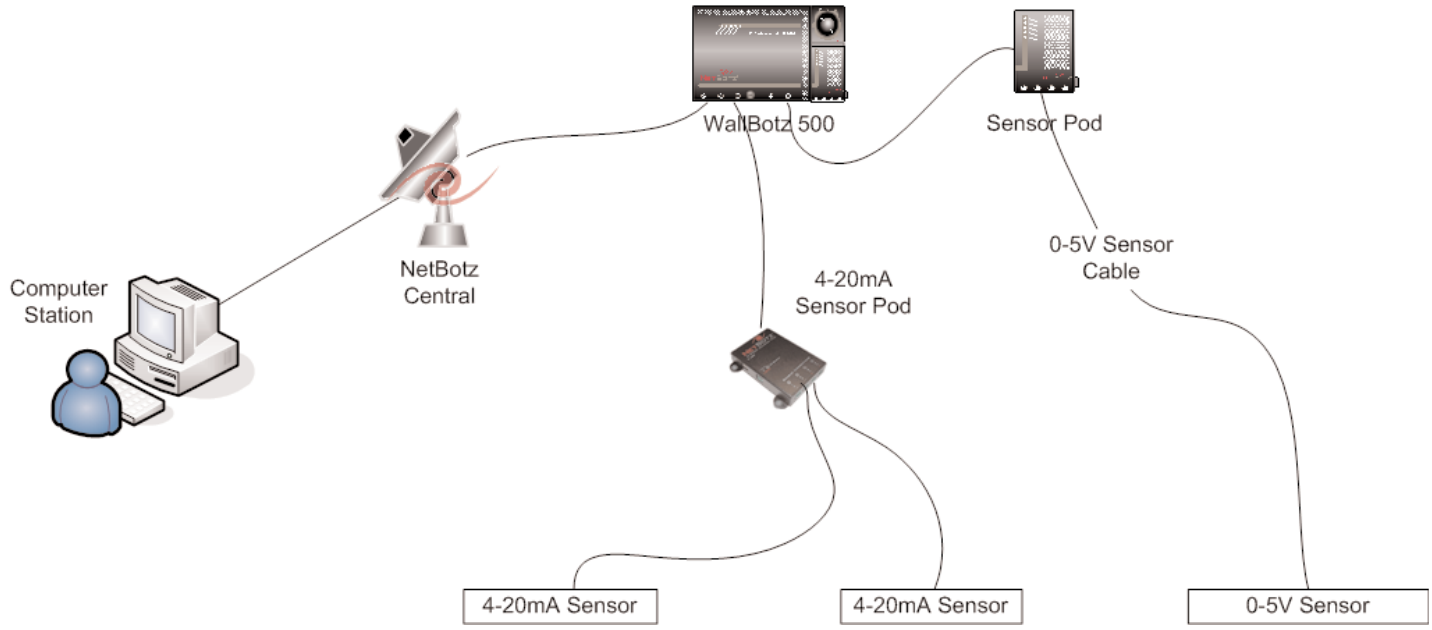
NetBotz's comprehensive suite of External Integration Products (EIP) allows for the seamless integration of third party devices into NetBotz's monitoring and management platform.

EIP 4-20mA Sensor Pod

Many industries, such as manufacturing and utilities, rely on extremely sensitive monitoring devices to protect the quality and integrity of their processes and environments. The quality of the sensor readings, and the timeliness in which information is provided, is critical to the operation's success. Sensors in such environments typically output a 4-20mA analog signal, which is transmitted to a stand-alone monitoring device.

NetBotz's EIP 4-20mA Sensor Pod collects an analog signal from a wide range of standard third-party 4-20mA sensors, and integrates the information into the NetBotz management system. By integrating these stand-alone sensors into the NetBotz solution, they become accessible over the company's IT network, and can be viewed, monitored, and reported on via the network.

The EIP 4-20mA Sensor Pod connects to either a NetBotz 500 or NetBotz 420 via USB. It is USB bus-powered, so an external power supply is not required. There are four screw-terminal sensor ports on the EIP 4-20mA Sensor Pod, to accommodate up to four 4-20mA sensors. For connecting three- and four-wire sensors, there is an additional port on the side for supplemental loop power.



The above schematic represents a typical deployment of the NetBotz 500 Appliance with the 0-5V Sensor Cable and two 4-20mA Sensor Pods reading data from external sensors. The NetBotz 500 is also managed by NetBotz Central software which a user can view from any computer station.

EIP 0-5V Sensor Cable

Thousands of 0-5V analog sensors are installed in manufacturing and utility operations around the world. By using the EIP 0-5V Sensor Cable these stand-alone may now be connected, correlated and managed at the NetBotz appliance edge device, and then carried upstream via an IP connection to NetBotz's central management location.

Examples of 4-20mA and 0-5V analog sensor equipment

- **ExtremeTemperature sensors**
- **Machine Tool Status Outputs**
- **Power Usage sensors**
- **Ground Fault Detection**
- **Battery Charging and Monitoring**
- **Operational status of fans, motors and pumps, other equipment and devices**
- **Hydrogen Sensors**
- **Sensors for other gases**
- **Detect burned out lights**
- **Temperature sensors**
- **Carbon Dioxide (CO2) sensors**
- **Air intake temperature**
- **Mass air flow sensor**
- **Vat/Pipe Flow Regulators**

EIP Output Control

Output control provides the ability for a NetBotz appliance to control elements of its environment. Output control devices may be individually labeled, managed and controlled through the Advanced View user interface with either the NetBotz 500 or NetBotz 420. Output Control functions may also be triggered in response to any environmental or camera alert. Additionally, schedules can be set up for relays or power switching to execute at specified times.

NetBotz offers two types of output control: the EIP Output Relay Pod 120, which provides the ability to send an electronic control signal to turn a variety of small devices on or off, and remote power switching via the EIP Power Control Pod.

Outputs are available in button relay and switch relay. Button Relay actions cause the state of the relay device to switch from its default (unpressed) state to its alternate (pressed) state for a specified period of time, after which the relay automatically reverts to the unpressed state. Switch Relay actions cause the state to switch from its current state (on or off) to its alternate state. Once switched, the relay remains in the new state until another switch action changes its state again. Available default actions include one-second button, 10-second button, and switch.

For each relay out port or power outlet, the administrator can define an access list to control which users are allowed to manually control that port or outlet.

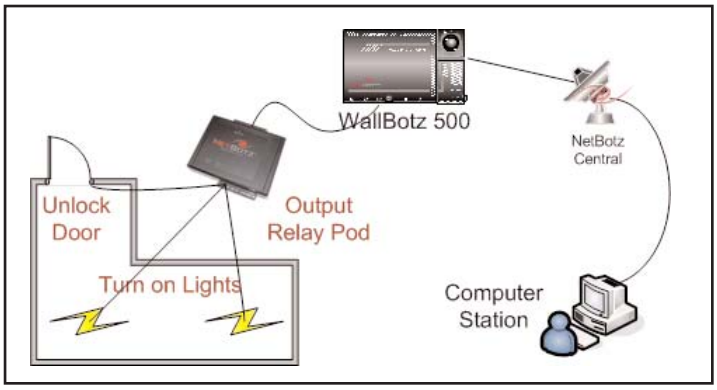
EIP Output Relay Pod 120

The EIP Output Relay Pod 120 gives the NetBotz 500 and NetBotz 420 the ability to send an electronic control signal to turn a variety of small devices on or off, like door locks, light switches, and flashing lights.

- Trip low-current relay outputs to open locks, turn on lights, or other actions
- 16 outputs, each can be individually labeled and controlled
- Supported on NetBotz 500 and NetBotz 420

The EIP Output Relay Pod 120 connects directly to either a NetBotz 500 or NetBotz 420 USB port using USB cables and extender cables. The Pod is USB bus-powered, so an external power supply is not necessary. Using USB hubs, up to 4 Output Relay Pods (64 total outputs) can be connected to a single NetBotz 500. One Output Relay Pod 120 may be connected to a single NetBotz 420

The Pod's reed relay outputs provide high quality, long life, low power (10 Watts maximum) dry contact switch closures.



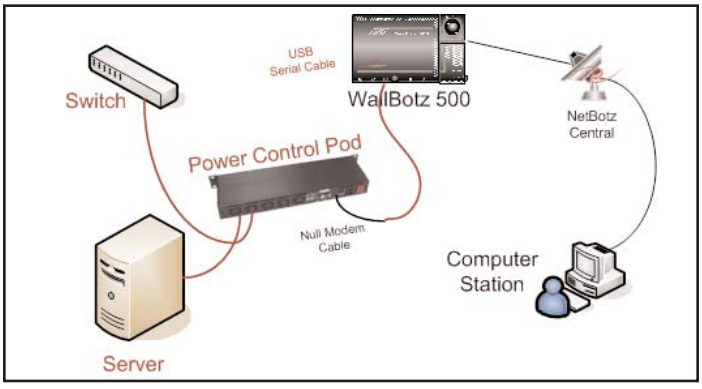
The above schematic represents a typical deployment of the NetBotz 500 with an Output Relay Pods attached.

EIP Power Control Pod

The EIP Power Control Pods enable remote power switching and rebooting for 115 or 230 VAC powered equipment.

- Turn remote equipment on or off, or reboot
- 1- and 5-plug products are available
- US and International versions available
- Supported on NetBotz 500 and NetBotz 420
- Rack mountable

To provide power switching for 115VAC powered equipment, a Power Control Pod 110 is connected to a NetBotz 500 or NetBotz 420 USB port, using a USB-to-serial converter cable and a null modem cable (both cables included). The equipment is then plugged into the power control pod. Using USB hubs, up to 16 Power Control Pod 110s may be connected to a NetBotz 500. Each Pod can switch up to 15 amps. A European version (Model 230) of this product has IEC connectors for power input and output up to 5 amps, allowing use in many countries.

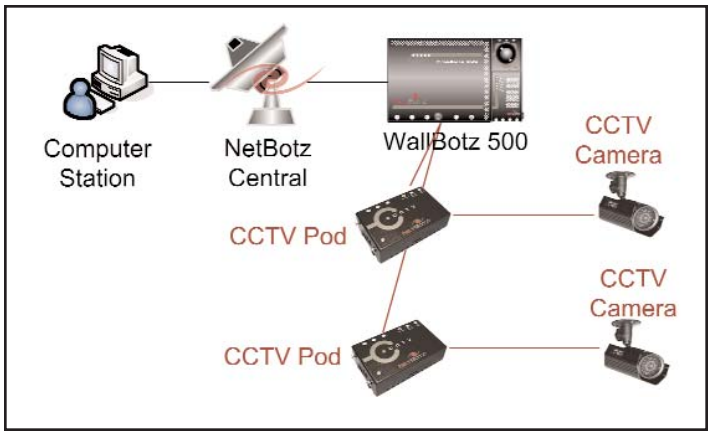


The above schematic represents a typical deployment of the NetBotz 500 with a Power Control Pod attached.

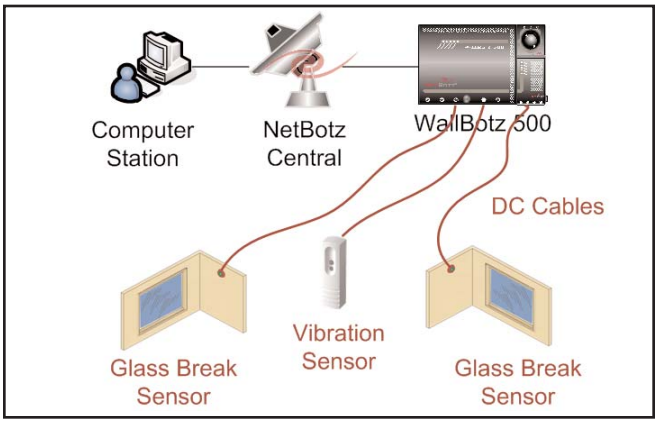
EIP CCTV Adaptor Pod

Closed Circuit Television (CCTV) cameras are a mainstay of the industrial and security industries. The NetBotz CCTV Adapter Pod is designed for customers who want to implement the NetBotz active monitoring platform for physical and environmental threats, while leveraging and including their installed base of CCTV cameras. The CCTV Adapter Pod also enables the integration of a wide range of CCTV cameras, such as day/night and water resistant cameras, into the NetBotz solution. This ties together not only the visual elements of a room, but the environmental elements as well, in an integrated, intelligent platform. A NetBotz 500 or 420 equipped with a CCTV Adapter Pod provides advanced alert information including motion sensing, alert image capture settings, and alert customization with images captured by CCTV cameras. A full range of standard and specialized CCTV Cameras are supported.

- Designed for use with a NetBotz 500 or NetBotz 420 appliance
- Converts analog video source to digital image suitable for use by NetBotz 500's and NetBotz 420's motion sensing, alert customization, and other capabilities
- Provides images of up to 640 x 480 resolution, 24-bit color and up to 30 frames per second (color and resolution may be limited by CCTV video source)
- BNC, RCA or S-Video inputs from a CCTV camera or other video source
- Video source format can be NTSC, PAL, or SECAM
- Internal microphone can capture monophonic audio streams from the location in which the CCTV Adaptor Pod is installed
- External jacks for microphone, speaker, door switch sensor (not included)



The schematic to the left represents a typical deployment of the NetBotz 500 with a CCTV Adapter Pod attached



The schematic to the right represents a typical deployment of the NetBotz 500 with multiple Dry Contact Cables attached.

EIP Dry Contact Cable

Dry Contact sensors are state sensory, reporting whether a condition is in a normal state or not. All NetBotz appliances feature built-in Dry Contact Sensor support that enables the support of external sensor devices like:

- Condensation sensors
- Vibration Sensors
- Glass Break Sensors
- Gas Sensors
- UPS and HVAC dry contact alert ports

A NetBotz Dry Contact Cable is used to connect dry contact devices to the NetBotz appliance. The mini-DIN connector on one end of the cable is connected to an external sensor port on the NetBotz monitoring appliance. The other end of the cable has leads to connect to the terminal in the dry contact sensor device.

Technical Specifications

EIP 4-20mA Sensor Pod	Dimensions	2.5 in x 3.8 in x 0.8 in (not including wire terminators)
	Compatible with	NetBotz 500 (Up to 16 Pods max)
		NetBotz 420 (Up to 4 Pods max)
	Number of 4-20mA sensors supported per pod	4
	Physical Connectivity	USB to NetBotz appliance
		Four sensor connector ports with positive/negative screw terminals
	Power	USB bus-powered; Supplies 18 vdc to sensors Supplemental loop power port for 3- and 4-wire sensors (50 mA total)
	Mounting	Tabs at corners for mounting on wall or cabinet rail; rubber feet included for tabletop mounting.
	Regulatory Certifications	FCC Class A: CE
	Operating Environment	2° to 50°C (35° to 120°F)
EIP 0-5V Sensor Cable or EIP Dry Contact Cable	Length	15 feet
	Connectors	Male mini-DIN connector at one end; positive/negative lead wires at the sensor end
	Compatible with	NetBotz 500 (Up to 4 Cables max)
		NetBotz 420 (Up to 4 Cables max)
		NetBotz 320 (Up to 4 Cables max)
		Sensor Pod 120 (Up to 4 Cables max)
EIP Output Relay Pod	Dimensions (length)	7.1 in x 5.3 in x 1.5 in
	Compatible with	NetBotz 500 (Up to 4 Relay Pods; 64 total outputs)
		NetBotz 420 (Up to 1 Relay Pod; 16 total outputs)
	Number of Output Relay devices supported per pod	16
	Maximum Power Output	10 Watts per relay
	Power required	USB Bus Powered; no external power supply
	Physical Connectivity	USB to NetBotz appliance, 16 relay outputs
	Regulatory Certifications	FCC Class A, CE
	Operating Environment	0° to 70°C (32° to 158°F)
EIP Power Control Pod		
	Dimensions	Models 110 & 230 (Single-plug): 5.5 in x 5.0 in x 1.65 in Models 115 & 235 (5-plug): 17 in x 6.5 in x 1.75 in
	Compatible with	NetBotz 500 (up to 16 total Power Control Pods)
		NetBotz 420 (counts against limit of 4 non-camera pods)
	Types	Single-plug; 5 plug
	Number of Power Control devices supported per pod	16
	Power	Single-plug: Model 110 max load 15 amps; Model 230 max load 5 amps. Five-plug: Model 115 max load 15 amps; Model 235 max load 10 amps.
	Power Outlet Type	Models 110 & 115: NEMA 5-15 Models 115 & 235: IEC 320-C13
	Physical Connectivity	USB-to-Serial cable to NetBotz appliance (included)
		IEC connectors for international version
	Operating Environment	0° to 45°C (32° to 113°F)
	Mounting	19 in rack mount bracket included
	Regulatory Certifications	UL, CE
CCTV Adapter Pod	Dimensions	4.3 in x 2.7 in x 1.1 in
	Compatible with	NetBotz 500 (Max 4)
		NetBotz 420 (Max 1)
	Power	USB-powered
	Resolution	640 x 480, 24-bit color, up to 30 frames per second
	Operating Environment	2° to 50°C (35° to 120°F)
	Audio	Internal microphone to capture monophonic audio streams
		External microphone can be connected
	Video Source Input Signals	NTSC, PAL, SECAM
	Physical connectivity	USB to NetBotz appliance
		CCTV Camera connects to BNC,RCA, or S-Video port on Pod
		Jack provided for a door switch sensor (not included), which can be used alone or in combination with the built-in motion sensing to trigger alert image captures.
	Mounting	Laser-cut mounting holes on the rear of the pod and a mounting bracket enable mounting the pod in a variety of locations.

Product SKUs

External Integration Products		
EIP 4-20mA Sensor Pod		NBPD0129
EIP 0-5V Sensor Cable	DIN - Dry Contact Leads, 15' length	NBAC0231
EIP CCTV Adaptor Pod 120		NBPD0123
EIP Power Control Pod 110	Single-plug, 115 VAC, up to 15 amps, includes USB-to-serial converter cable	NBPD0125
EIP Power Control Pod 115	Five-plug, 115 VAC, up to 15 amps, includes USB-to-serial converter cable	NBPD0126
EIP Power Control Pod 230	Single-Plug, 230 VAC, up to 5 amps, IEC connectors, includes USB-to-serial converter cable	NBPD0127-INT
EIP Power Control Pod 235	Five-plug, 230 VAC, up to 10 amps for all 5 outlets, IEC connectors, includes USB-to-serial converter cable	NBPD0128-INT
EIP Output Relay Pod 120		NBPD0124
Dry Contract Cable	DIN - Dry Contact Leads, 15' length	NBDC0001
Accessories		
Door switch Sensor	Compatible with CCTV Adapter Pod, 50-ft cable	NBAC0002
Additional Door Switch Sensor	12-ft cable (connects to External Sensor Port)	NBAC0109
USB Extension	Repeater Cable, 5M, LSZH	NBAC0209L
USB Cable	5m, LSZH	NBAC0211L
USB Extension	Repeater Cable, 5M, Plenum-rated	NBAC0209P
USB Cable	5m, Plenum-rate	NBAC0211P
DIN Rail Mount	DIN rail mounting option for Output Relay Pod	NBAC0228
Bracket	Allows Power Control Pod 110 or 230 to be mounted on outside edge of equipment rack	NBAC0229
Rack assembly	Supports 3 Power Control Pod 110s or 230s	NBAC0230
CAT 5 Pod Extender	1 Port, 5m USB cable, U.S. power supply	NBAC0207
CAT5 Pod Extender	4 Port, includes 5m USB cable, U.S. power supply	NBAC0208
Fiber extender	500m, U.S. power supply	NBAC0212
USB Hub	4-port Hub, Self- and Bus-powered modes, U.S. power supply	NBAC0210

NETBOTZ®
MONITOR ◆ DETECT ◆ ALERT ◆ PROTECT

About NetBotz

Austin, Texas-based NetBotz, Inc. is the leading global provider of IP-based intelligent physical security solutions. Thousands of organizations use the NetBotz solution, which prevents business and financial losses attributed to network downtime by providing early warning of conditions that threaten the integrity of a company's data, technical and equipment assets. NetBotz markets its solution through a network of distributors, solution partners and accredited resellers. NetBotz has received the Best in Show Award in the Network Management Category at NetWorld+Interop and is a recipient of KPMG's Start-up Standout Award.

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