

For Use With Control/Communicators Supporting  
Zone Expander/Relay Module Connection via Keypad Lines

# INSTALLATION INSTRUCTIONS

## GENERAL INFORMATION

The 4229 adds up to eight end-of-line resistor supervised zones and two dry form C (SPDT) relay outputs to compatible control/communicators via the control's keypad wiring.

The 4229 may be mounted within the control's cabinet (if room permits), or remotely. If mounted remotely, there are provisions to tamper protect the unit. Communication to the 4229 is supervised so that it cannot be disconnected from the keypad wiring without detection by the control. If the wiring is cut, a tamper or alarm signal will result, to indicate that this device (and possibly other similarly connected devices) has become inoperative.

## INSTALLATION

When the 4229 is to be mounted inside the control's cabinet, it should be mounted horizontally. Insert self-tapping screws (provided) in two adjacent raised tabs at the back of the cabinet. Leave the heads projecting 1/8". Hang the 4229 on the screw heads via two of the slotted holes on the back of its housing. In this case, the 4229's cover need not be tamper protected. If the tamper jumper (see the diagram) is placed in its upper position, the 4229's cover can be left off. See the control's instructions for additional information.

When the 4229 is to be mounted remotely, holes on its back permit it to be mounted horizontally or vertically. Wires can exit from the side or the breakout on the back of its housing. The tamper jumper should be put into its lower position and, when the installation is completed, the unit's cover put on. A magnet in the cover, positioned near a reed switch in the unit, will cause a tamper signal to be sent to the control if the cover is removed.

Affix the connections label that accompanies the unit to the inside of the 4229's cover (if the cover is to be used) or to the inside of the control's cover.

## CONNECTIONS AND SETTINGS

See the table below, and the diagram on the reverse side.

Make protection zone connections to 12-position terminal block TB1. Each zone that is used must have a 1000 ohm end-of-line resistor connected across the end of its loop, as shown.

If a zone is not programmed, the resistor need not be used. The method of programming each zone for type of alarm and reporting code to the central monitoring station varies with the control to which the 4229 is connected. Refer to the installation instructions for that control unit.

Set the DIP switch to one of 16 addresses, as shown in the table below, so the control can identify the 4229 and communicate with it properly. The address to be set is determined by the particular control to be used, and the control's installation instructions must be consulted. As shipped, the DIP switch is set for an address of "0".

Zone A can be set for a fast response time of 10ms to an open circuit, if desired, by setting position 1 of the DIP switch to "OFF". As shipped, it is set to "ON" for a response time of 300ms, as shown in the table below. All of the 4229's other protection zones have a nominal response time of 300ms.

Connections to 4229's two relays are made via the seven-conductor cord provided. Refer to the control's installation instructions for specific information on how to program the control's various activation options for the relays.

Connections to the control's keypad wiring points can be made via 4-position terminal block TB2, the 4-pin plug, or both (wire color connections are the same).

## SPECIFICATIONS

**Physical** 6-7/16"W x 4-1/4"H x 1-1/4"D  
(163mm x 108mm x 32mm)

## Electrical

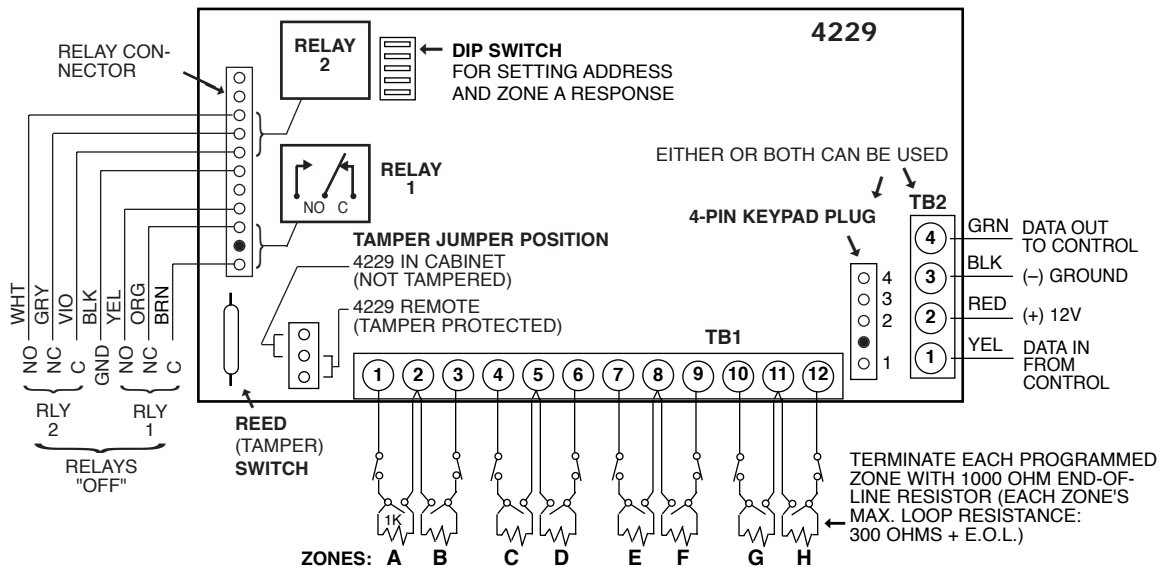
Input Voltage: 12VDC (from control's remote keypad connection points)

Input Current: 30mA (relays off)  
100mA (relays on)

Relay Contact  
Rating: 2A max. at 28VDC/AC

## DIP SWITCH SETTINGS

SWITCH POSITION		4 2 2 9 ADDRESS SETTINGS ("—" means "OFF")															
OFF ← → ON	↓	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	1	ON	—	ON	—	ON	—	ON	—	ON	—	ON	—	ON	—	ON	—
	2	ON	ON	—	—	ON	ON	—	—	ON	ON	—	—	ON	ON	—	—
	3	ON	ON	ON	ON	—	—	—	—	ON	ON	ON	—	—	—	—	—
	4	ON	ON	ON	ON	ON	ON	ON	ON	—	—	—	—	—	—	—	—



### WIRING CONNECTIONS

REFER TO THE INSTALLATION INSTRUCTIONS FOR THE CONTROL WITH WHICH THIS DEVICE IS USED FOR DETAILS REGARDING THE LIMITATIONS OF THE ENTIRE ALARM SYSTEM.

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