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CX – PA-5

Lock-Out Relay

Installation Instructions

MADE IN CANADA

PAGE 1 OF 3

Section 1

General Description

The **PA-5** is a lock-out relay designed to be used with door mounted safety sensors, and activated by wall switches.

The principle is that when the door is opened manually the safety sensor *is not* in the circuit, and the door operator essentially functions as a manual door closer.

When a user pushes the activating switch, however, the **PA-5** immediately sends a signal to the operator, opening the door, and putting the door mounted sensor into the circuit. This allows an object or person in the path of the door to be detected. The door will not close until the object or person leaves the door swing path. The sensor remains in the circuit until the door is completely shut, allowing for maximum safety. A door position switch (magnetic contact switch) is provided to connect to the **PA-5**.

If a lintel mounted safety sensor is desired, it is mounted and connected to the safety circuit of the door operator in the usual way. (It *is not* connected to this PA-5 circuit).

Section 2

Installation

Mounting

The LED's are visible through the wrap-around sleeve, which also has cutouts for adjusting the potentiometer. Once the unit has been wired and adjusted, it may be tucked up in the header or affixed using the supplied Velcro.

Wiring

CAUTION: Do not apply power to the unit until all secondary wiring is complete, and jumpers installed (if required). For 24V operation, use terminals #1 & 2. For 12V operation, use terminals # 2 & 3.

Connect a dry contact, such as a wall switch, to the **DRY INPUT/DRY COM** terminals (#12 & 13). Connect a wet output, as found on a 3-Terminal Radio Receiver, to the INPUT terminals marked **WET INPUT/WET COM** (#11 & 14). You may connect both types of inputs simultaneously.

Connect the door position switch to terminals #12 & 15. Be sure to use the correct terminals on the magnetic contact switch. (Switch contact is closed when the door is closed).

The door mounted safety sensor is connected to terminals #4 & 8. You will use the normally open contacts of the sensor (relay contact closes when person/object is detected).

Connect terminals #7 & 8 to your automatic door operator.

An internal jumper connects terminals #5 & 7.

Section 3

Set Up Instructions

As you make the following adjustments, refer to diagram #1 for locations of the LED's, and potentiometer.

Turn on power, and activate a wall switch. Observe LED1 & LED2, (Sensor and Operator LED's) both which should light immediately. The length of time for LED2 is determined by adjusting the pot marked OPERATOR TIME, (clockwise for more time, counterclockwise for less time). It may be desirable to keep the PA-5 time at a minimum and add hold time using the operator timer instead.

The Sensor LED, LED1 will stay on until the door has closed (as indicated by the door position switch). This LED indicates that the sensor circuit is active, and any detection of a person or object by the safety sensor will keep the door held open.

Note that when the door mounted sensor detects a person or object, LED2 does not light. It only lights when a wall switch has been pressed. This also means that the adjustable timer on the PA-5 does not affect the hold time of the safety sensor.

An added feature of the PA-5 is the automatic reset feature. If a switch has been pushed but the door has not opened within approximately 2 minutes, the unit will reset. This will save wear and tear on the lock and the door operator.

Section 4

System Inspection Instructions

After the Installation and operational check of the system:

1. Place warning label on the door (as per ANSI A156.10 or A156.19 guidelines). This will advise the person entering the swing side zone that the door will move.
2. Instruct the owner on door system operation and how to test it. This should be checked on a daily basis.
3. Instruct the owner on what to do if the door or any of its components become damaged.
4. Strongly recommend to the owner that the complete entry be inspected twice a year as part of the service agreement.

Section 5

Technical Data

Model	PA-5
Size	3 1/4" x 2 1/4" x 3/4"
Mounting	Velcro patch
Enclosure	Protective paper sleeve
Operating Voltage	12 – 24 Volts AC/DC
Current Draw	18 mA standby, 40 mA max.
Response Time	0.3 seconds
Inputs: Dry	N.O. dry contact only
Wet	3 - 30V AC/DC, Optically isolated, non-polarity sensitive
Relay Output	2 x Form C (SPDT)
Contact Rating	4 amps @ 120V AC/ 30VDC
Electrical Life	100,000 @ rated capacity
Time Delays	DOR - 0.5 - 30 seconds

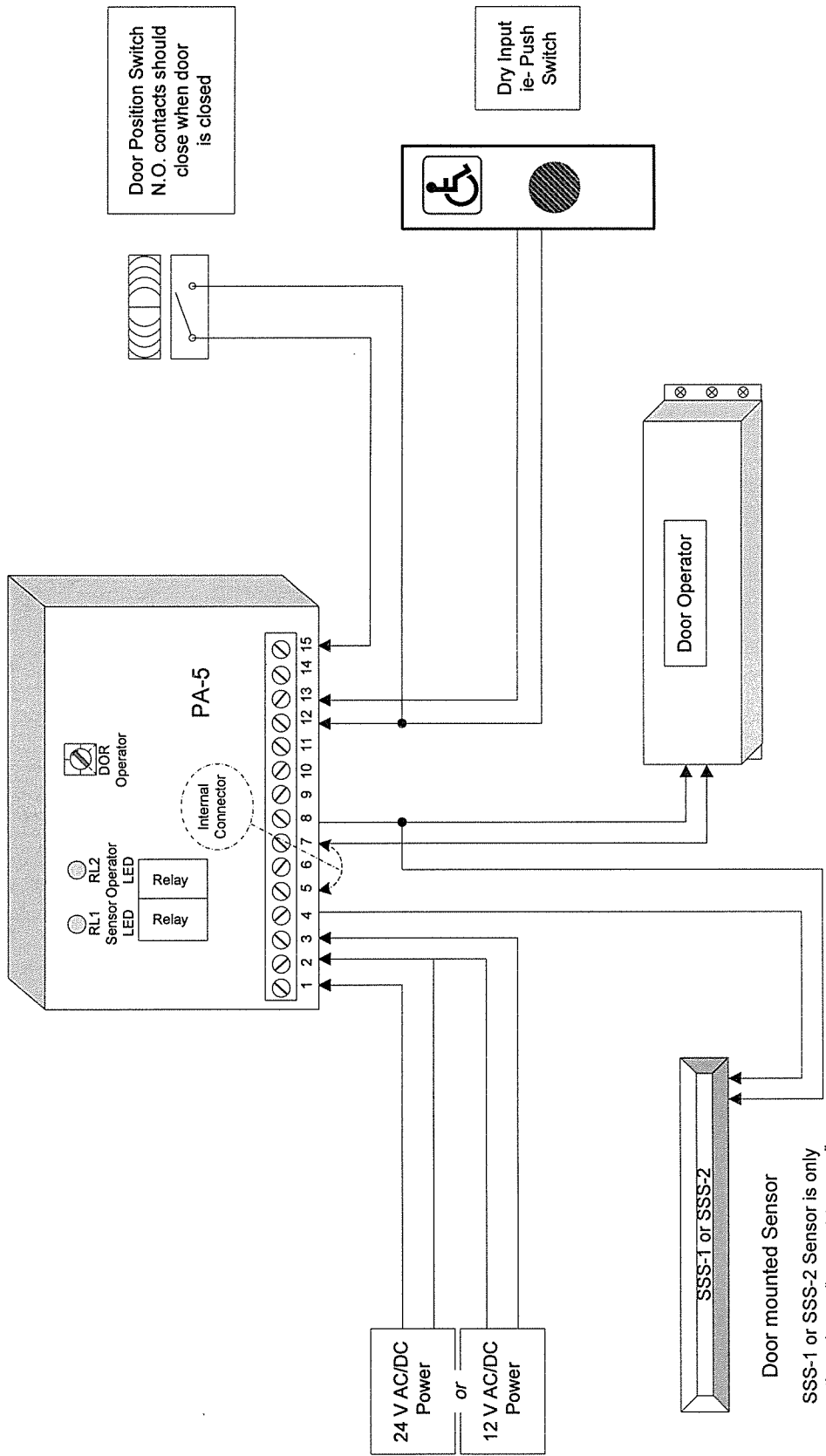
Section 6

Warranty

Camden Door Controls guarantees the PA-5 to be free from manufacturing defects for 3 years from date of sale. If during the first 3 years, the PA-5 fails to perform correctly, it may be returned to our factory where it will be repaired or replaced (at our discretion) without charge. Except as stated herein, Camden extends no warranties expressed or implied regarding function, performance or service.

Questions?

Call us toll-free at 1-877-226-3369



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Camden
DOOR CONTROLS

Camden Manufacturing

SCALE: NONE DRAWN BY: DGW DATE: 12/29/04 REVISED:

PA-5 Lock-out-Relay Wiring Diagram

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