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PC-3b LOCKOUT RELAY

GENERAL DESCRIPTION

The PC-3b is a lockout relay designed for use with the OA-601C swing door package and can be used with actuators utilizing D.C. motors. Since the door would normally be detected by the OA-601C when it is closing, the PC-3b is used to bypass this sensor once the door starts its closing cycle.

The PC-3b is also interconnected to the OS-1C rail beam that is installed at the end of the guide rails (per ANSI 156.10). If someone should walk back into the swing zone of the door, the rail beam will send a signal back to the PC-3b causing it to reset, thus allowing the safety signal to be sent to the door control. This type of installation provides for maximum safety.

INSTALLATION INSTRUCTIONS

The orange and brown wires are used to power the PC-3b. These wires are to be connected to 24 VAC.

The red and black wires connect directly to the input of the door motor leads. These wires are polarity sensitive, so if the PC-3b doesn't energize when the door is closing, you will need to reverse the red and black wires. **NOTE:** The red LED is illuminated whenever the PC-3b is energized.

The grey and violet wires are to be used with the OS-1C rail beam's normally open (N.O.) relay output. The OS-1C's beam heads are typically mounted at the ends of the guide rails (the control module is mounted in the header) and is used to reset the PC-3b in the event anyone should walk into the swing zone during the closing (or lockout) cycle.

The yellow and green wires are connected in series with the OA-601C (for safety) normally open (N.O.) relay contacts. When the door is operating in the closing cycle, the OA-601C relay will be locked out until the door reaches its fully closed position. The blue and white wires are not used. See the attached wiring diagram for an example of how the PC-3b is wired into the door control.

OPERATION

The cover of the PC-3b doesn't need to be removed to set the adjustable timer. The timer should be initially set to the middle position, establishing an approximate delay of 4 seconds. A red LED (visible through the cover) will illuminate for the length of the delay. Counter-clockwise adjustment will reduce the delay while clockwise adjustment increases the delay. Proper adjustment has been obtained when the LED is lit during the entire time of the close cycle of the door.

SET UP INSTRUCTIONS

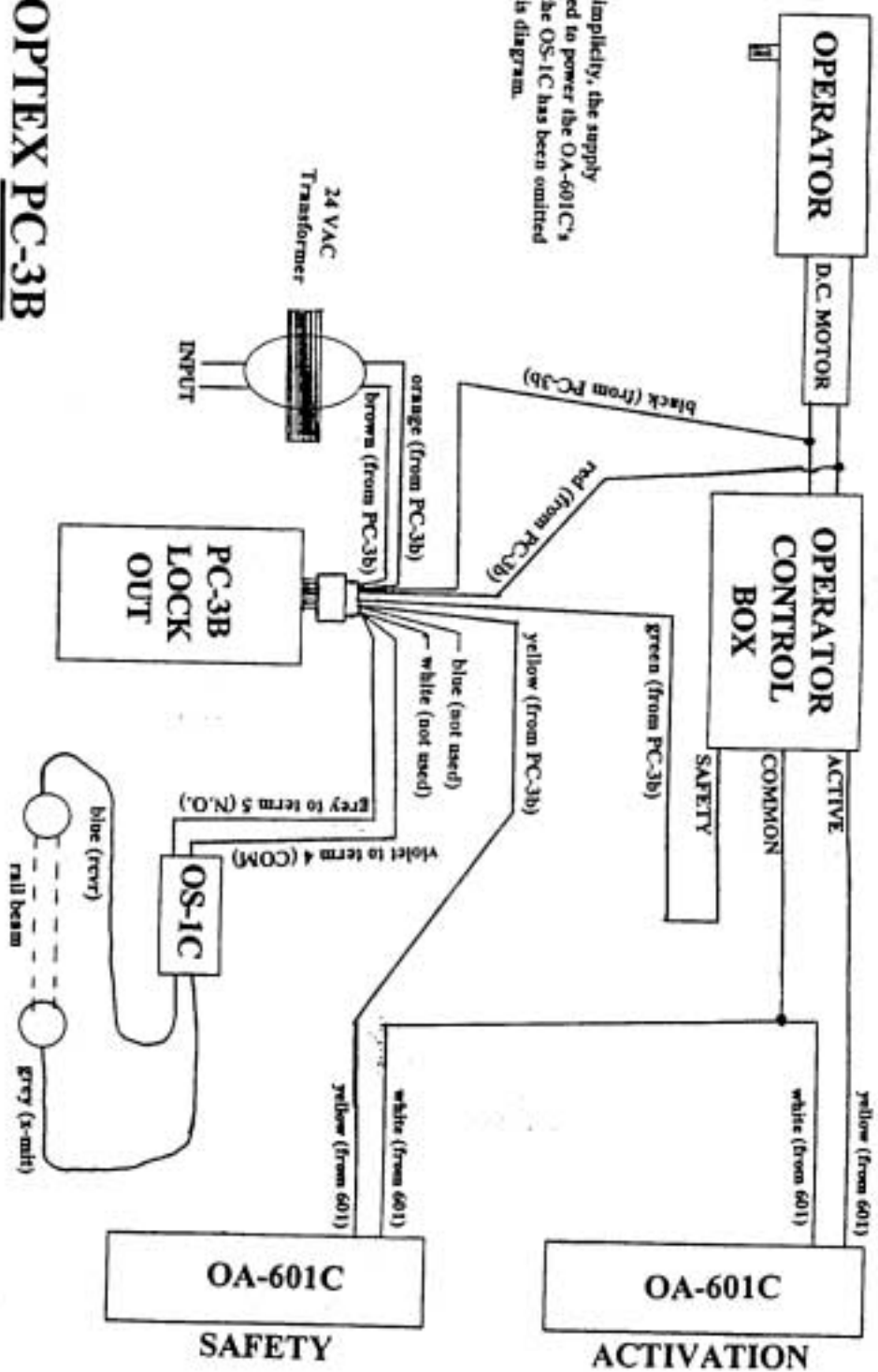
Interruption of the rail beam during the close cycle will extinguish the LED and immediately re-connect the OA-601C relay to the safety of the door control. Re-activation of the door from the approach side OA-601C at this time will not re-open the door until the swing zone clears out. If the door is in the close cycle and the rail beam is not interrupted during the cycle, the PC-3b will be reset by an activation of the approach OA-601C, allowing the door to re-open. This reactivation will occur even if the door has not reached the fully closed position.

SYSTEM INSPECTION AND INSTRUCTIONS

The automatic swing door should be inspected daily per AAADM (Association of American Automatic Door Manufacturers) recommendations.

OPTEX PC-3B LOCK-OUT RELAY WIRING DIAGRAM

NOTE: For simplicity, the supply needed to power the OA-601C's and the OS-1C has been omitted on this diagram.



NOTE: An OS-BH surface mount package is required to mount the OS-beamheads to the rail, unless the rail is tubular.