



Entrex

Door Controls Inc.

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PC-3b

Lockout Relay

MADE IN
CANADA



General Description

The PC-3B is a lockout relay designed to be used with any swing door safety sensor and can be used with operators utilizing DC motors. Since the door would normally be detected by the D14 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 connected to the DB11s surface mounted door beams which are installed at the end of the guard rails. If someone should walk back into the swing path of the door the safety beam will send a signal to the PC-3B causing it to reset, allowing the safety signal to be sent to the door control. This type of installation provides for maximum safety.

The PC-3B will also work with Microwave Sensors' D14-2 Presence Sensor and the L.O.R. is responsible for turning the threshold transducer on and off.

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. These wires are polarity sensitive so if the PC-3B doesn't energize when the door is closing, then just reverse the Red and Black wires. **NOTE:** The Red LED is illuminated whenever the PC-3B is activated.

The Gray and Violet wires are to be used with the DB11S door beams. These wires are to be connected to the normally open (N.O.) relay contacts of the door beam. The DB11S is typically mounted at the end of guard rails and issued to rest the PC-3B. In the event anyone should walk into the swing path when the door is in its closing cycle. If the door beams are not used with the PC-3B then do not connect the wires and tape the ends individually to prevent them from shorting.

The Yellow and Green wires are connected in series with the safety sensor relay contacts. When the door is operating in the closing cycle, the D14 Presence Sensor is switched out until the door is fully closed. The Blue and White wires are connected to terminals 7 and 8 of the D14-2. If an earlier D14 or other sensor is used then just tape the blue and white wires to prevent them for shorting. See diagram for

an example of how the PC-3B is wired into the door control.

Set Up Instructions

The cover of the PC-3B does not have to be removed for the time delay to be set. The time delay adjustment should be initially set to its middle position, this establishes a delay of approximately 4 seconds. A Red LED is on the printed circuit board to aid in setting the proper time delay. When adjusting this, the Red LED will glow for the length of the delay. Counter clockwise adjustment will reduce the time delay, while clockwise adjustment will increase it. Proper adjustment has been obtained when the LED is lit during the *entire closing cycle of the door*.

Activation of the safety beams during the closing cycle will extinguish the LED before the time delay expires. Reactivation of the door from the approaching side will also reset the PC-3B provided there is no one activating the D14 on the swing side. The PC-3B will recycle with the door even if the door is reactivated before it reaches its fully close position.

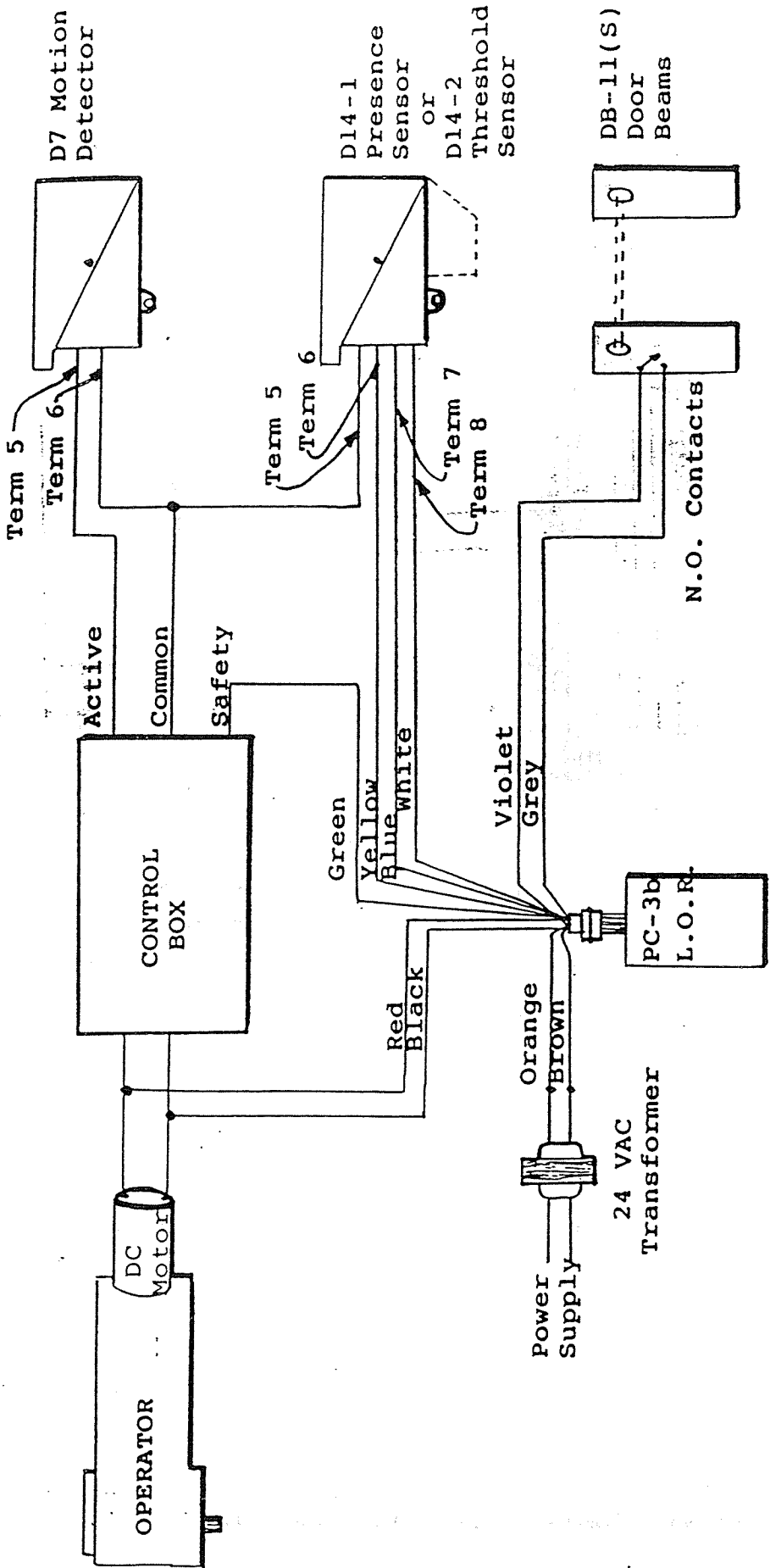
Installation using the D14-2 Presence Sensor should have the threshold transducer verified by observing the Green LED on the front of the D14-2. The Green LED should be illuminated whenever the door is open. When the door is closed or in its closing cycle the Green LED will be off. If the Green LED does not come on when the door is open then double check the Red and Black wire connections. Also check the Blue and White wires to ensure they are not reversed. (they too are polarity sensitive.)

System Inspection and Instructions

What to do after the installation and operational check of the system:

1. Place warning label on the door to advise the person entering the swing side zone that the door will move.
2. Instruct the owner of the door system operation and how to test it, and what to do if the door or any of its components become damaged.
3. Strongly recommend to the owner that the complete entry be inspected twice a year as part of the service agreement.

40-DRG00101



NOTE: For simplicity, the 24 VAC needed to power the D7, D14, and DB-11 have been omitted on this diagram.



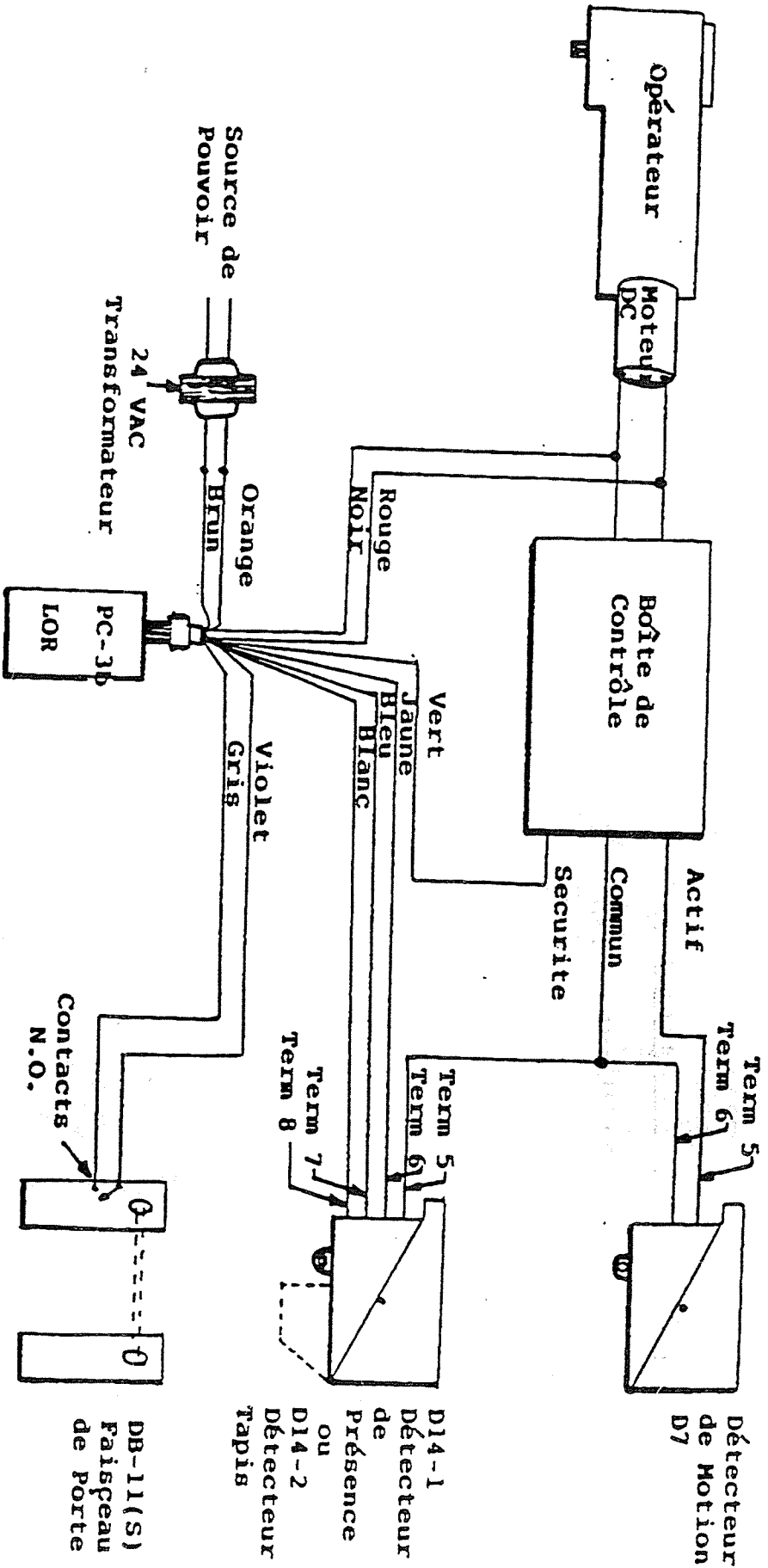
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SCALE: NONE	APPROVED BY:	DRAWN BY D G W
DATE: 12/28/88		REVISED

PC-3b LOCK-OUT-RELAY

Phone: (905) 840-3082	DRAWING NUMBER
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NOTE: Pour simplicité, le 24 VAC requis pour fournir de l'énergie au D7, D14 et DB11 ont été omis sur ce diagram.

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Diagram de Filage

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