

SECURITRON PB5E EXIT BUTTON INSTALLATION AND OPERATING INSTRUCTIONS

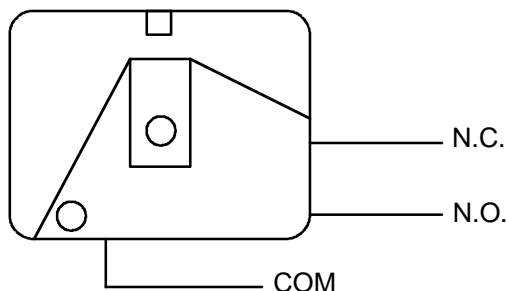
1. DESCRIPTION

The model PB5E is a spring loaded momentary 2" diameter, exit button, mounted on a stainless steel single gang outlet box cover. The DPDT contacts switch when the button is depressed and return when it is released. The contacts are UL listed with 10 AMP capacity. The PB5E can be used for momentary release of fail safe or fail secure electric locks. If interfaced with a release hold timer, it can provide for timed release of electric locks. It may also be used to input a REX (request to exit) signal to a card reader system. We recommend that the local building or fire safety authority be consulted prior to using exit buttons for door egress. They may require a "no special knowledge" exit device such as Securitron's Touch Sense Bar.

2. INSTALLATION

As the PB5E is an economy version, it is supplied without back box and without hookup wire. Connection is made via .250" quick connect terminals found on the rear of the unit. To connect these terminals, the installer may use push on connectors to which wires are crimped or wires may be directly soldered to the terminals through the hole provided. If a back box is used, the installer should select a box with minimum depth of 2 1/2". The drawing below shows identification of the switch's common, normally closed and normally open terminals. Note, however that an end view of one contact block is shown. The unit has a double pole, double throw output so there is a second block affixed next to the first with the contacts in the same orientation.

MODEL PB5E: IDENTIFICATION OF CONTACTS



NOTE: THERE ARE TWO CONTACT BLOCKS MOUNTED NEXT TO EACH OTHER. THE TERMINAL I.D. IS THE SAME ON BOTH BLOCKS (ONE IS SHOWN IN THE DRAWING TO THE LEFT)

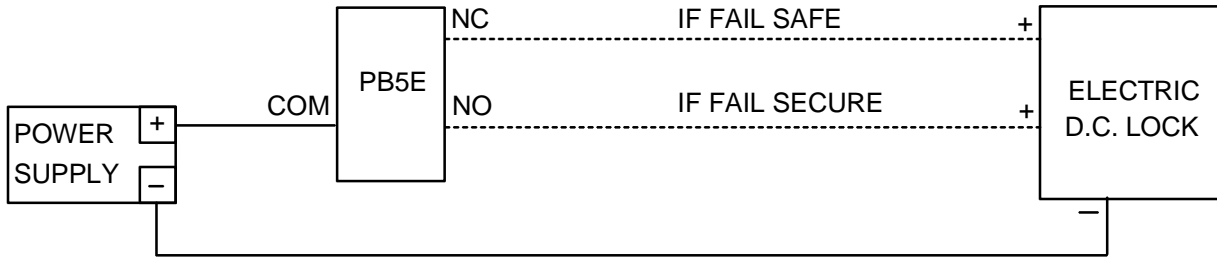
TERMINAL TYPE: .250" QUICK CONNECT

3. WIRING

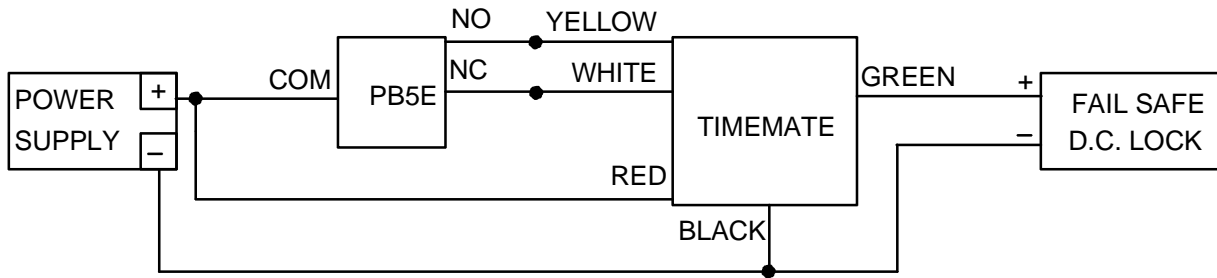
The PB5E can be used in many different ways but the drawings below show three common applications. The first shows momentary release of a fail safe or fail secure electric lock. The second drawing shows timed release of a fail safe electric lock using the PB5E and Securitron's TimeMate. Momentarily pressing the button will release the lock for the amount of time set on the TimeMate. The wiring is also done in double break fashion so that even if the timer fails, the button will still be able to momentarily release the lock. This is for added safety. The third drawing shows interface of the PB5E with an access control system such that a fail safe lock

(generally a magnetic lock) is released for the amount of time programmed into the system in safe, double break fashion. In this third application, both poles of the PB5E are required. The NC contacts of the PB5E are connected in series with the NC contacts of the access control system's lock control relay and the NO contacts of the PB5E connect to the REX input terminals of the access control system such that when the button is pressed, the access control system will operate its relay thereby releasing the lock and allowing egress. But if the access control system experiences an electronic failure, the PB5E contacts will still directly release the fail safe lock for as long as the button is held pressed.

MOMENTARY RELEASE OF FAIL SAFE OR FAIL SECURE ELECTRIC LOCK



TIMED DOUBLE BREAK RELEASE OF FAIL SAFE LOCK



TIMED DOUBLE BREAK: FAIL SAFE LOCK USED WITH ACCESS SYSTEM

