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ASSA ABLOY, the global leader in door opening solutions

SECURITRON PB6 & PB7 SERIES EXIT BUTTON INSTALLATION AND OPERATING INSTRUCTIONS

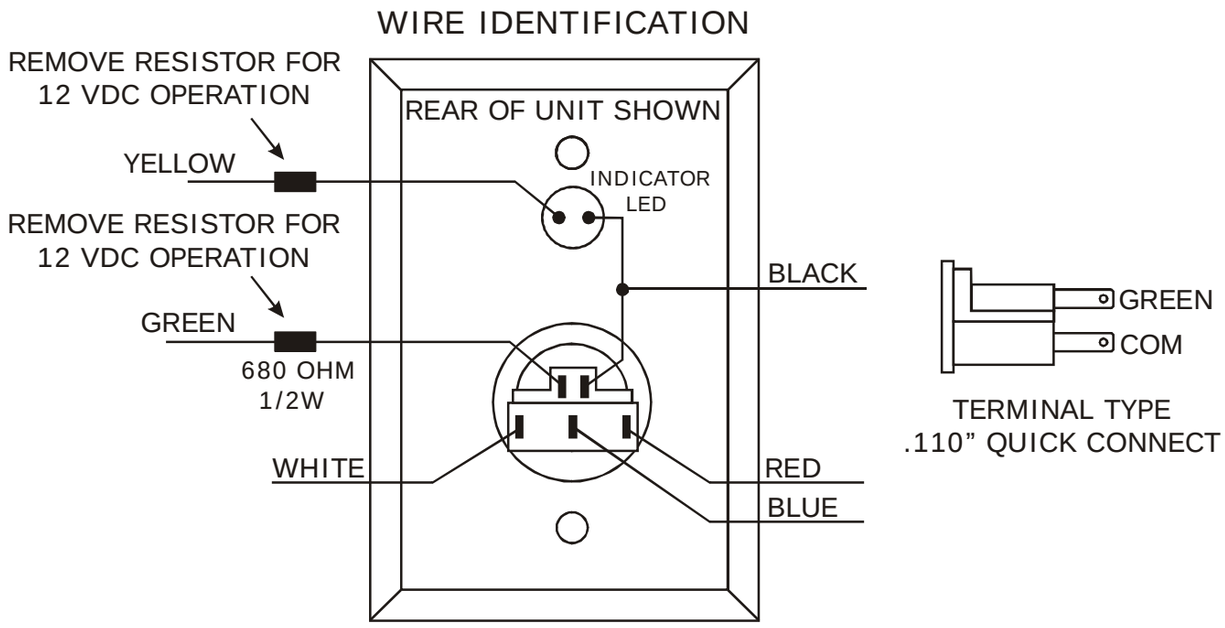
1. DESCRIPTION

The model PB6 and PB7 is a spring loaded momentary small square or oval exit button, with bi-color illumination, mounted on a stainless steel single gang or narrow stile keyplate. Adding "N" to the part #(PB6N, PB7N) yields mounting on a 1 3/4" narrow stile plate. The SPDT contacts switch when the button is depressed and return when it is released. The contacts are UL listed with 5 AMP capacity. The indicator LED mounted above the button and the switch LED illuminates the button itself.

The indicator LED and switch LED can be individually operated according to the needs of the installation. The indicator LED is mounted above the button and the switch LED illuminates the button itself. The PB6 and PB7 can be used for momentary release of fail safe or fail secure electric locks. If interfaced with a release hold timer, such as Securitron's TimeMate, 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

The PB6 and PB7 comes with a retrofit backbox and color coded hookup wires installed. The recommended backbox is Securitron part number 560-10200. If a different box is used, be sure it is at least 2 1/2" deep to accommodate the switch. The drawings below show identification of the unit's connection points.



NOTE: LIGHTS OPERATE ON 24 VDC IF RESISTOR IS NOT REMOVED

YELLOW = INDICATOR LED POSTIVE
GREEN = SWITCH LED POSITIVE
BLACK = COMMON DC NEGATIVE
RED = SWITCH N.C.
BLUE = SWITCH N.O.
WHITE = SWITCH COMMON

Figure 1

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3. LED OPERATION

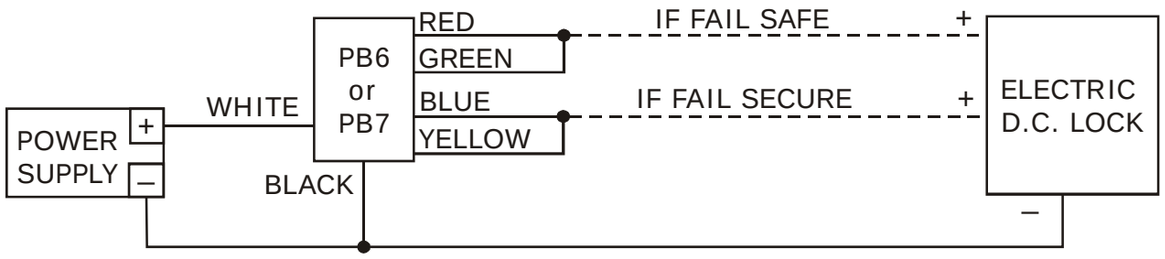
Resistors are installed so that the LEDS may be operated on either 12 or 24 VDC. The yellow wire drives the indicator LED and the green wire drives the switch LED. Both wires have resistors soldered on them. If the power supply is 24 VDC, connect directly to the wires. If the power supply is 12 VDC, remove the resistor for proper operation at the lower voltage. See Figure 1.

The indicator LED draws 20 mA and the switch LED draws 9 mA @ 12VDC or 20 mA @ 24VDC. For replacement: the indicator LED is Securitron part number 700-10095 (Red) or 700-10097 (Green) and the switch LED is Securitron part number 030-14600. The switch LED is replaced by grasping the back of the white contact block and twisting it counter-clockwise to the 11 o'clock position, then pull the contact block straight out of the rear of the switch. This reveals the LED which then can be pulled out from the block. Note: LED is polarity sensitive. Insert new LED into contacts, the ⊕ should be on the side of the green wire with printing facing the same directions as the switch block terminals. Operating Life of the switch LED is 100,000 hours.

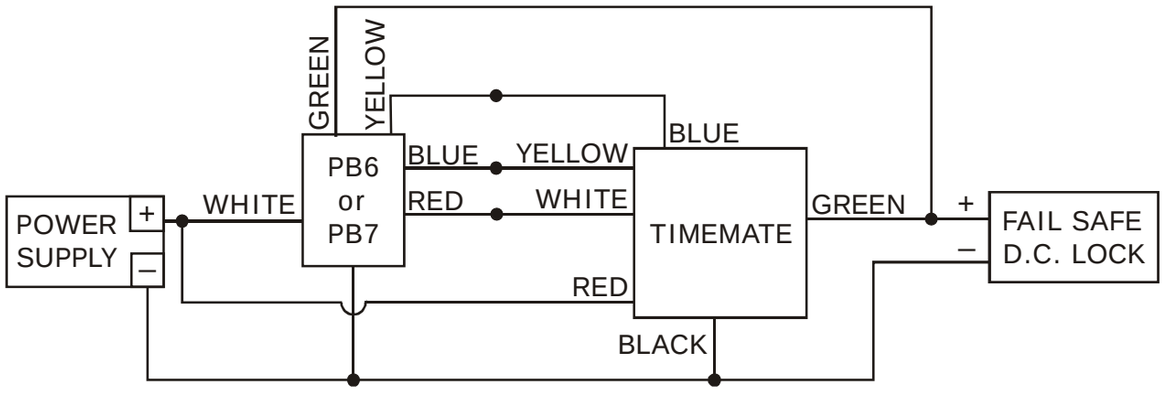
4. WIRING

The PB6 and PB7 can be used in many different ways but the drawings below show two common applications. The first shows momentary release of a fail safe or fail secure electric lock. The PB6 and PB7 indicators are connected so that the switch LED is normally on. When the button is pressed, releasing the lock, the switch LED turns off and the indicator LED comes on. The second drawing shows timed release of a fail safe electric lock using the PB6 and PB7 and Securitron's TimeMate. Momentarily pressing the button will release the lock for the amount of time set on the TimeMate. The indicator will change colors during the lock release period. 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.

MOMENTARY RELEASE OF FAIL SAFE OR FAIL SECURE ELECTRIC LOCK



TIMED DOUBLE BREAK RELEASE OF FAIL SAFE LOCK



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