LOCKNETICS
| | | | | ▪ ▪ ▪ *Security Engineering*

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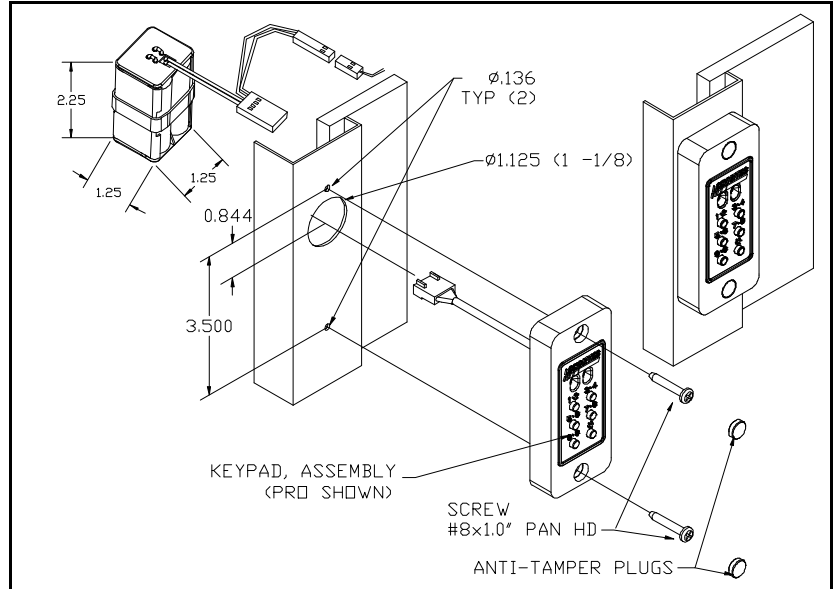
PRO+ INSTALLATION INSTRUCTIONS

PRO+ SYSTEM:

The PRO78+ and PRO79+ access control systems are easy to install easy to configure systems which can be used in conjunction with virtually any locking device on the market. Magnetic locks, electric strikes, solenoid-driven deadbolts, automatic operators, and even electric latch retraction devices can be controlled by the PRO+ system. The hard wired units provide the ability to operate up to 5 amps at 12/24 volts. They can also be used to interface to equipment requiring a dry contact input. A request to exit input can be used to release the locking device with a momentary button or exit device switch, etc. When used with a door contact, the lock will cancel the remaining time delay once the door is opened for "anti-tailgate" function.

The PRO78+BP and PRO79+BP systems are designed to operate Locknetics motor-driven electric strikes and cabinet locks, providing a very easy to install system with no hard wiring to AC power. They are convenient for remote locations or mobile applications where hard wiring is difficult. The battery powered unit does not provide for remote release or "anti-tailgate" features.
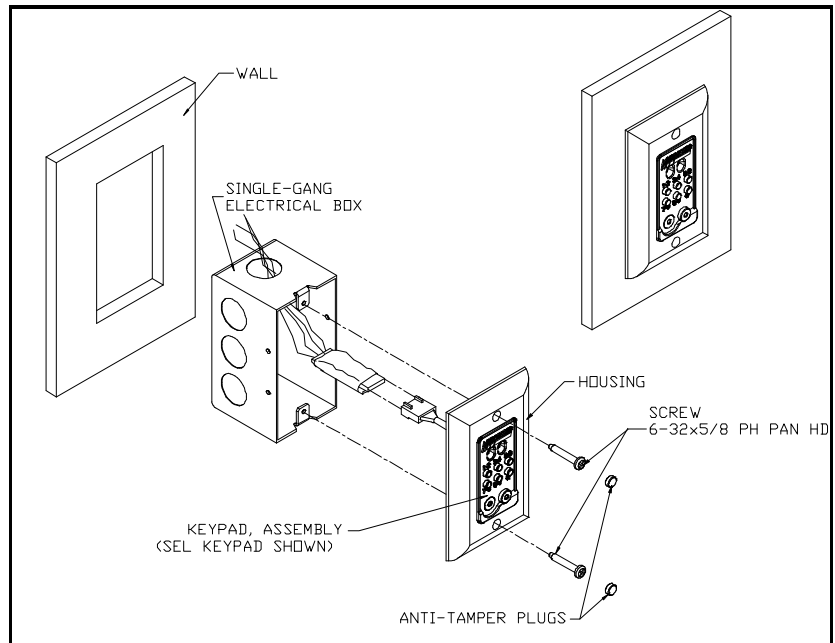
MULLION/FRAME INSTALLATION:

The PRO78+ unit is intended to be mounted on a door frame or where a single gang box is not to be used. The drawing to the right shows a PRO78+BP unit. The mechanical installation for the hard wired PRO78+ is the same. Note that when installing a battery powered unit, the batteries must be accessible for replacement.

SINGLE GANG BOX INSTALLATION:

The PRO79+ unit is intended to be mounted in a single gang box. The drawing to the right shows a PRO79+ hardwired unit. The mechanical installation for the battery powered PRO79+BP is the same. Note that when installing a battery powered unit, the batteries must be accessible for replacement. (If the anti-tamper plugs will be used, the batteries should be installed on the opposite side in their own box so they can be accessed without drilling out the plugs.)

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HARD WIRED PRO78+/PRO79+:

1. **PULL WIRES**
See example wiring diagrams in this manual, and information included with the locking device, door contact (if used), and request to exit device (if used), to determine the type of system being installed. Determine the number of wires needed to be pulled to each device and the correct routing for the wires. Pull wires appropriate for the voltage and current required by the devices in accordance with local building codes.

2. **INSTALL SYSTEM COMPONENTS**
Install power supply, locking device, and PRO+ controller (as shown on page1). Install exit device (if used), door contact (if used) and request to exit device (if used). NOTE: do not install anti-tamper plugs at this time.

3. **CONFIGURE SYSTEM**
After all wires are connected and checked power up the system. A fail safe the lock should be locked at this time. If the lock is fail secure, it should be unlocked. (The factory default condition of the relay is normally closed (N.C.)) If this is not the case, check wiring. If wiring is OK continue.

There are two configuration steps which must be done at this time:

A. CONFIGURE RELAY OUTPUT:
The relay in the system has only two wires. They can be configured to operate normally open (N.C.) or normally closed (N.C.) If the system is powered up and the locking device requires you to change from N.O. to N.C. or back again, follow this procedure:

On the keypad, enter the following sequence. **(The factory default master programming code is 97531.)** Note that whenever the asterisk (*) is entered, the LEDs will flash. Wait until they stop flashing before entering the next number.

TO CHANGE RELAY OUTPUT STATE: <MASTER CODE> * ... 33* ... 175* <END>

The output wires should change state. This can be observed with a meter. The lock should now be locked. To verify proper operation test the system by entering a valid code. **(The factory default access code is 13579.)** The lock should unlock for the factory default time delay of 8 seconds. Then it should relock.

B. CONFIGURE REQUEST TO EXIT DEVICE FUNCTION (IF USED):
There are two types of functions which can be configured for the request to exit device. If one is not used, disregard this step and insulate the request to exit wire (brown) and the ground wire (white/orange) if it is not used for the door contact.

MOMENTARY UNLOCK MODE: When a momentary contact closure occurs between the white and white/orange wires the lock will unlock for the relock time delay (8 seconds, default).

TOGGLE UNLOCK MODE: When a momentary contact closure occurs between the white and white/orange wires the lock will unlock and remain unlocked until the momentary contact closure occurs again. This allows for a Lock/Unlock input from a control console, etc.

The unit is shipped from the factory in the "momentary unlock mode". If it is necessary to change the state of the function follow this sequence. **(The factory default master programming code is 97531.)** Note that whenever the asterisk (*) is entered, the LEDs will flash. Wait until they stop flashing before entering the next number.

TO CHANGE REQUEST TO EXIT FUNCTION: <MASTER CODE> * ... 33* ... 173* <END>

TEST: activate the request to exit device, momentarily. The lock should operate according to the mode you set it for. If not, change the function by following the steps above.

NOTES:
1. DOOR STATUS SWITCH CAN BE WIRED EITHER N.O. OR N.C.. THE CONTROLLER IS ONLY LOOKING TO SEE A CHANGE OF STATE.
2. REQUEST TO EXIT DEVICE MUST BE N.O.. LOCK WILL REMAIN UNLOCKED AS LONG AS REQUEST TO EXIT DEVICE IS ACTIVATED.
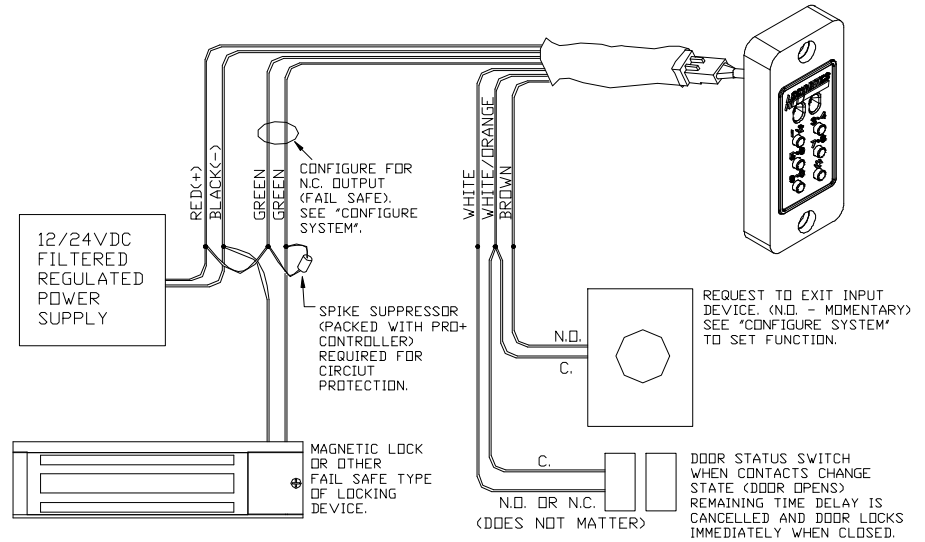
4. **PROGRAM LOCK**
Refer to the programming guide included with the unit for complete programming instructions (Form 58000).
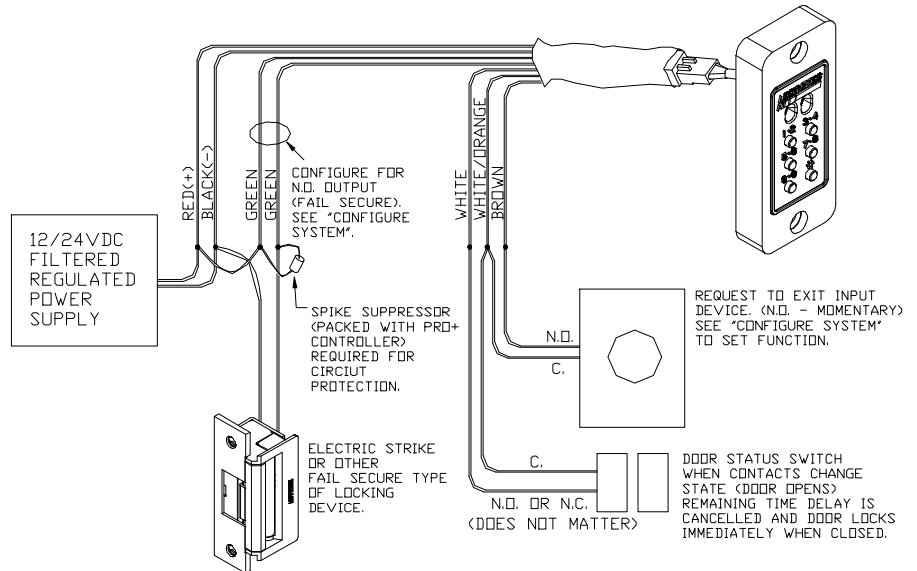
FAIL SAFE LOCKS

IMPORTANT NOTE:

WHEN INTERFACING SYSTEM TO SUPERVISED FIRE ALARM SYSTEM FOR EMERGENCY EGRESS APPLICATIONS IT IS NECESSARY TO CUT POWER TO THE LOCK ITSELF, NOT TO THE PRO+ CONTROLLER (UNLESS THEY SHARE THE SAME SUPPLY).
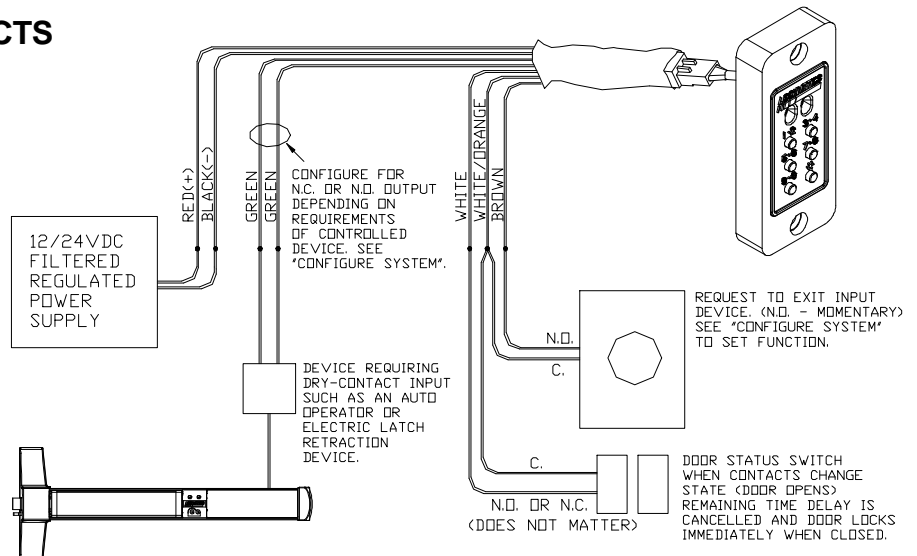
12/24VDC FILTERED REGULATED POWER SUPPLY

RED(+)
BLACK(−)
GREEN
GREEN

CONFIGURE FOR N.C. OUTPUT (FAIL SAFE). SEE "CONFIGURE SYSTEM".

SPIKE SUPPRESSOR (PACKED WITH PRO+ CONTROLLER) REQUIRED FOR CIRCIUT PROTECTION.

MAGNETIC LOCK OR OTHER FAIL SAFE TYPE OF LOCKING DEVICE.

WHITE
WHITE/ORANGE
BROWN

N.O.
C.

REQUEST TO EXIT INPUT DEVICE. (N.O. – MOMENTARY) SEE "CONFIGURE SYSTEM" TO SET FUNCTION.

C.
N.O. OR N.C. (DOES NOT MATTER)

DOOR STATUS SWITCH WHEN CONTACTS CHANGE STATE (DOOR OPENS) REMAINING TIME DELAY IS CANCELLED AND DOOR LOCKS IMMEDIATELY WHEN CLOSED.

FAIL SECURE LOCKS

12/24VDC FILTERED REGULATED POWER SUPPLY

RED(+)
BLACK(−)
GREEN
GREEN

CONFIGURE FOR N.O. OUTPUT (FAIL SECURE). SEE "CONFIGURE SYSTEM".

SPIKE SUPPRESSOR (PACKED WITH PRO+ CONTROLLER) REQUIRED FOR CIRCIUT PROTECTION.

ELECTRIC STRIKE OR OTHER FAIL SECURE TYPE OF LOCKING DEVICE.

WHITE
WHITE/ORANGE
BROWN

N.O.
C.

REQUEST TO EXIT INPUT DEVICE. (N.O. – MOMENTARY) SEE "CONFIGURE SYSTEM" TO SET FUNCTION.

C.
N.O. OR N.C. (DOES NOT MATTER)

DOOR STATUS SWITCH WHEN CONTACTS CHANGE STATE (DOOR OPENS) REMAINING TIME DELAY IS CANCELLED AND DOOR LOCKS IMMEDIATELY WHEN CLOSED.

INTERFACE WITH DRY CONTACTS

For locking devices/door controllers which require dry contact input such as electric latch retraction devices, automatic door operators, etc. Consult the technical documentation supplied with that product to determine the correct setting for the output relay and set it accordingly.

12/24VDC FILTERED REGULATED POWER SUPPLY

RED(+)
BLACK(−)
GREEN
GREEN

CONFIGURE FOR N.C. OR N.O. OUTPUT DEPENDING ON REQUIREMENTS OF CONTROLLED DEVICE. SEE "CONFIGURE SYSTEM".

DEVICE REQUIRING DRY-CONTACT INPUT SUCH AS AN AUTO OPERATOR OR ELECTRIC LATCH RETRACTION DEVICE.

WHITE
WHITE/ORANGE
BROWN

N.O.
C.

REQUEST TO EXIT INPUT DEVICE. (N.O. – MOMENTARY) SEE "CONFIGURE SYSTEM" TO SET FUNCTION.

C.
N.O. OR N.C. (DOES NOT MATTER)

DOOR STATUS SWITCH WHEN CONTACTS CHANGE STATE (DOOR OPENS) REMAINING TIME DELAY IS CANCELLED AND DOOR LOCKS IMMEDIATELY WHEN CLOSED.

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PRO+ INSTALLATION INSTRUCTIONS

BATTERY POWERED PRO78+BP/PRO79+BP:

1. **SELECT BEST LOCATION FOR COMPONENTS**
Batteries must be accessible for replacement. Therefore they should not be located in the same box as the PRO+BP keypad if the anti-tamper plugs are to be used. A single gang box with a blank cover plate located inside the locked room is a good idea.

2. **INSTALL SYSTEM COMPONENTS**
Battery pack, locking device, and PRO+ controller (as shown on page1).
NOTE: do not install anti-tamper plugs at this time.

3. **TEST SYSTEM**
On the PRO+ keypad, enter **13579 (the factory default access code)**. The lock should unlock for 8 seconds, then relock. If not, check wiring and mechanical installation for accuracy and good connection.

4. **PROGRAM LOCK**
Refer to the programming guide (Form 58000) included with the unit for complete programming instructions and information on low battery indication, memory reset and time delay setting.

NOTE: the PRO+BP does not support the use of request to exit device or door contact. Therefore, there is no need to configure the system as in the hard wired version.

When making connections to battery powered lock connect black to black and white to white (or red).