ELECTRONIC ENGINEERING LTD.

Proximity Readers for Runner Series

P/N 7101602 Rev. B Y.A 09.07

PW-Reader 2K: For arm/disarm area A and/or B.

The **PW-Reader 2K** is used for selective arming or disarming Area “A” or “B” or both.

By presenting a valid access tag or card to the reader the user can then Arm or Disarm the panel using “A” & “B” buttons on the reader.

On presenting a valid tag to the reader, the current status of Areas A & B will be shown on the two LED’s. The user has 4 seconds to make a new selection before the reader will timeout and the tag will have to be re-presented again.

The Areas allowed to be controlled by the user must be programmed by the installer in the Runner control panel. If the user is allowed to fully **Arm**, **Disarm** or **Stay Mode** then he can cycle through the various states.

As button “A” or “B” is pressed the associated LED will change to indicate the new state:

For Disarmed state - the LED will be GREEN.

For Armed state - the LED will be RED.

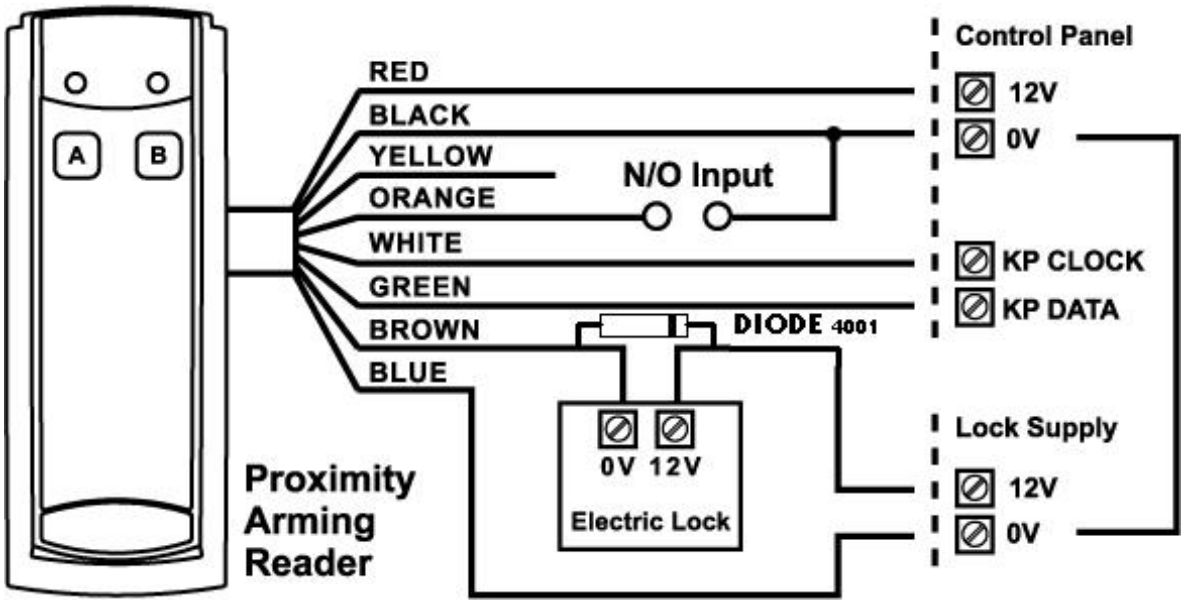
For Stay Mode - LED would be flashing RED.

Four seconds after the last button was pressed the reader will action the new armed status and the LED will turn off.

If the reader is programmed to allow “1 & 3 PANIC” functions, a “PANIC” alarm will be generated if “A” & “B” buttons are pressed simultaneously (see P72E option 5).

NOTE

From the disarmed state you can select Armed or Stay modes but if already Armed or in Stay Mode you MUST disarm first (letting the reader timeout) before you can select a new armed state.



PW-Reader FK: Proximity and keypad (PIN) Access Reader.

The **PW-Reader FK** is used also as an access control reader, when the tag is presented; this reader combines a proximity reader with a full keypad.

Depending on program options the reader can operate on a proximity tag or card, by entering a valid user code, or by presentation of the tag/card followed by the user code (PIN).

If the presented tag requires a PIN number to be entered, the LED on the reader will flash for 5 seconds after a valid tag to indicate that the PIN number should now be entered. There is also an output available on this reader that follows the same addressing functionality as described above.

If the two buttons “PANIC”, “FIRE” or “MEDICAL” functions are programmed to the keypad (see P72E Options 5,6 & 7) these manual alarms can be generated at the reader by pressing “1” & “2” for “PANIC”, “3” & “4” for “FIRE” and “5” & “6” for “MEDICAL” alarms.

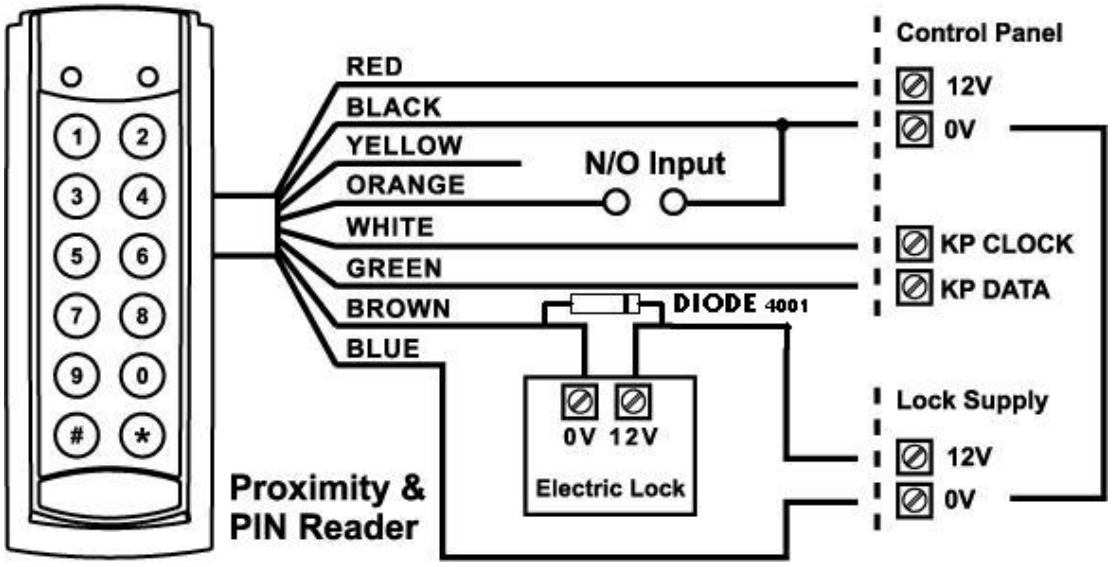
On each of the three readers there is an optional input (see drawings on following page). This input is not EOL monitored so it should only be used for non-critical monitoring functions, e.g. monitoring an exterior gate to show if it is currently opened or closed. A zone can be programmed to use this input for its trigger (see P122E Option 4) so that the state of the input can be displayed on a keypad. The inputs are linked to the selected keypad address programmed into the reader. For example if the reader being used was programmed as keypad #1, then the input can be assigned to zone 1 or 9 (at location P122E), if the keypad address was #8, the input can then be assigned to zone 8 or 16.

Also, the LED on reader types 2 & 3 can be linked to an output so that special functions may be displayed at the reader if desired (see P98E).

Each reader must have a unique keypad address number from 1-8 assigned so that the various program options can be assigned. This is explained in detail on Page 69.

NOTE

The proximity readers flash out the assigned keypad address number on the LED whenever the panel is in “Installer Program” Mode. This allows quick identification of the assigned address for each reader.



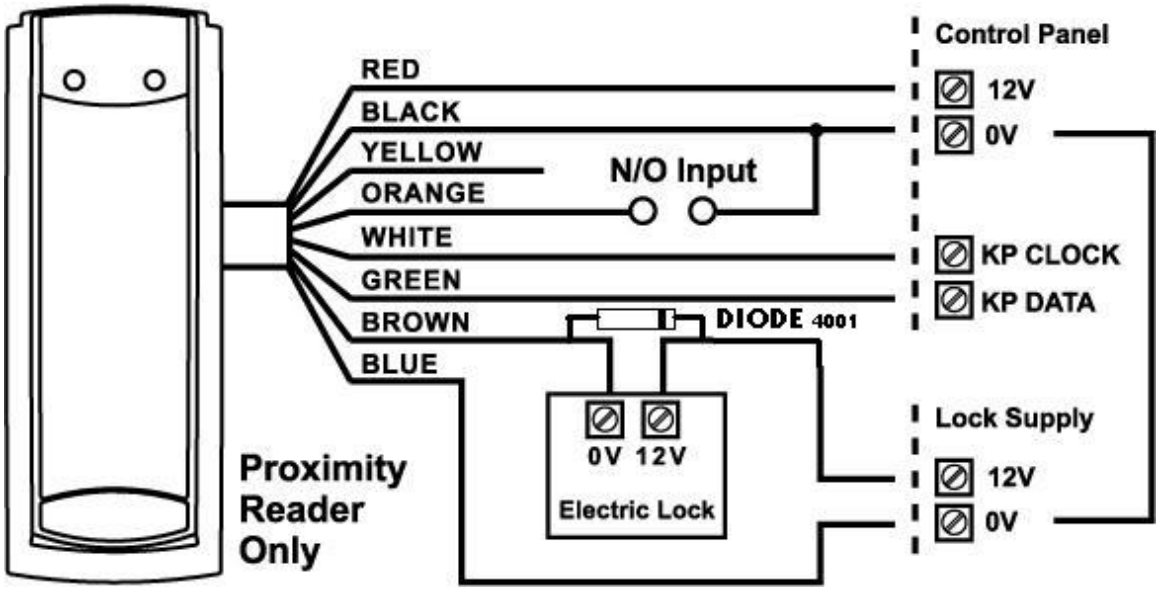
PW-Reader: Proximity Access Reader.

The **PW-Reader (without keys)** is generally going to be used as an access control reader although if the tag is allowed to Arm/Disarm the alarm then this will also happen when the tag is presented.

For access control, if a tag or card is presented to the reader the associated door lock will release via an output on the control panel.

There is also an output at the reader which can be used to unlock the door if desired (see drawing on following page for details).

The output number at the reader follows the keypad address number, e.g. if the reader has been assigned to keypad address 5, the output at the reader will follow all programming associated with output 5.



Assign the Reader

After a Reader has been connected to the bus, it has to get an address:

- Select the “installer mode” in the control panel as described in the installer manual.
- Enter the code P99E followed by the address you wish to assign (e.g. P99E**4**E will assign keypad address **4**).
- To address the reader you need to present a Card/Tag 5 times within 10 seconds to the Reader.
- When the address is learnt, the control panel stops the learn mode automatically.
- Repeat the same steps for every reader address you want to assign.

Warning

If you do not assign a unique address to every keypad and reader connected to the keypad buss, a conflict will exist that will cause erratic operation. Each reader or keypad MUST have a different address.

NOTE

The proximity and arming readers flash out the assigned keypad address number on their LED whenever the panel is in “Installer Program” Mode. This allows quick identification of the assigned address for each reader..

Card/Tag Learning

A Card has first to be enrolled into the system before starting to work with it.
All Cards/Tags are assigned to users. Therefore the Card/Tag storage options have to be similar to the user ones (for example if user 11 is assigned to area A, then Card/Tag number 11 will be assigned to area A as well).

- Select the “program mode” in the control panel as described in the installer manual.
- Enter P21E and the Card/Tag number you wish to enrol, i.e. 11E for tag/card number 11:
  the keypad will start to beep to indicate that learn mode has been started.
- Present the Card/Tag to the READER:
  once the Card/Tag has been received by the control panel and stored, the READER will stop beeping to indicate learn mode is completed.
- After learning process, in order to enable the tag operation, you MUST select the appropriate option at location P2E (options 2, 3 or 4 must be selected for the Card/Tag to work) on the control panel.

DELETE an ACCESS TAG/CARD CODE

DELETE an ACCESS TAG/CARD CODE - P22E 1-100E

If you wish to delete a single Access Tag or Card, pressing P22E then the User number while in Program Mode will delete the stored code against that User, eg P22E 11E will remove the tag or Card stored for User 11.

FIND an ACCESS TAG/CARD LOCATION

FIND an ACCESS TAG/CARD LOCATION - P23E 0E

If you have an Access Tag or Card loaded into the panel but are unsure which location (User #), pressing P22E (then 0E on an LED Keypad) while in Program Mode will start “Find” Mode. There is no need to press 0E when using an LCD keypad because the keypad will give you written prompts after entering P22E. The keypad will start to beep to indicate that “Find” mode has been started. Now present the Access Tag or Card you wish to find to a proximity reader connected to the panel. If the Tag or Card is in memory the keypad will display the number where the Tag or Card is stored (a number from 1-100). The keypad will stop beeping once the memory location has been found.

Assign Chirps to Access Tags

AREA OPTIONS “B” - P46E 1-2E – Option 4

If the panel is being Armed or Disarmed by an Access Tag/Card from a proximity reader it is possible to link the pendant chirps programming (P50E-P53E) to Arming or Disarming via the Access Tag or Card. If this option is On the chirps will apply to Access Tag/Cards. If the chirps are required to be displayed at the reader LED, the minimum pulse timer for the output (P39E) must be a value of 10.

Proximity Reader Led To Output Mapping

PROXIMITY READER LED to OUTPUT MAPPING - P98E 1-8E

Option 1 - Proximity Reader 1-8 LED follows Output 1

Option 2 - Proximity Reader 1-8 LED follows Output 2

Option 3 - Proximity Reader 1-8 LED follows Output 3

Option 4 - Proximity Reader 1-8 LED follows Output 4

Option 5 - Proximity Reader 1-8 LED follows Output 5

Option 6 - Proximity Reader 1-8 LED follows Output 6

Option 6 - Proximity Reader 1-8 LED follows Output 7

Option 7 - Proximity Reader 1-8 LED follows Output 8

If a proximity reader is connected to the control panel it may be desirable to have the LED provide some form of indication such as Arm/Disarm state, etc. By using this location it is possible to link the LED at a reader number to follow the programming of an output. The LED can be used to indicate Arm/Disarm state, Stay Mode Arm/disarm, output On/Off, etc. If chirps have been assigned to access tags/cards (P46E4E) and the output the reader LED is set to follow has the chirps assigned (P50E-P53E), then the output must have a minimum pulse time (P39E) of 10 for it to work correctly.

The proximity reader keypad address number is set at P99E as detailed below.

Assign Zone to Reader

ZONE OPTIONS A - P122E 1-16^{E} Option 4: Keypad Zone

If this option is on the Zone will follow the Input at the corresponding Proximity Reader. If the Proximity Reader is set to Keypad # 1 the input will be either zone 1 or zone 9, eg if P122E1E (zone #1) had option 4 on then the input at reader one will operate zone 1. If P122E9E (zone #9) had option 4 on then the input at reader one will operate zone 9. Proximity reader 1 can operate zones 1 or 9 through to proximity reader 8 can operate zones 8 or 16.

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