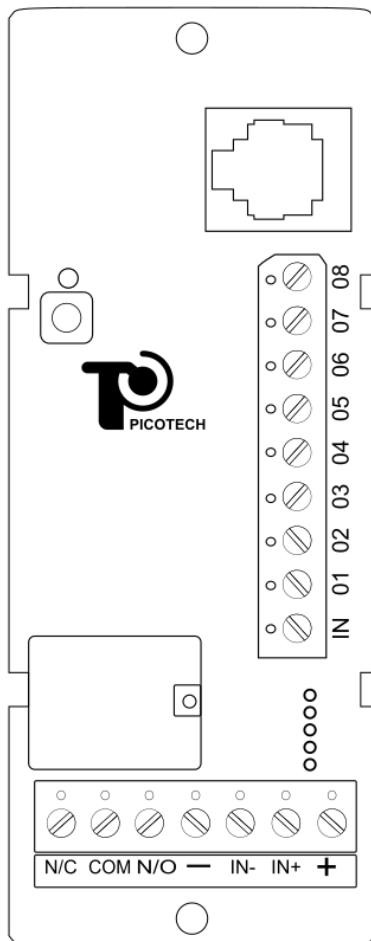


Interface Unit User Guide



- Repeater functionality for long range applications
- Monitor external devices for Alarm, Trouble and Panic signals
- Connect remote receivers to Arm/Disarm the Kwêbeam system
- Relay output to drive external Sirens or Lights
- 8 Programmable event outputs for Alarm, Trouble, Panic and Arm state

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1 Add the Interface unit to the system

1.1 Add the Interface unit using the Mobile APP

- 1) Make sure the KwêHub is added to the App. If not, follow the KwêHub manual for details.
- 2) Navigate to “Devices” and press the “+” button. Enter a name and zone number for the Interface unit.



Zone numbers can be the same for different sensors (more than one sensor can have the same zone number). When an alarm is triggered, the buzzer in the KwêHub will sound a unique sequence for each zone.

- 3) The LED on the Interface unit will start to flash. Press the Tactile Switch while the LED is flashing. If the LED flashes stopped before the tactile switch was pressed, repeat the procedure from step 2.
- 4) The Interface unit will now appear as a new device in the App.


1.2 Add the Interface unit with the Keypad



This is an alternative method to add devices if the Keypad is part of the Kwêbeam system. If the KwêHub is part of the system, it is recommended that the mobile App is used to add devices. See section ([Add the Interface unit using the Mobile APP](#)).

- Make sure the system is NOT armed.
- Connect the Keypad to the Programming Socket with the supplied cable.




- Press  to show the current Zone.
- Select **Zone 1 – 8**.



- Press & hold  to save the ZONE.



- LED  will illuminate to indicate successful pairing.

2 Wiring Diagrams

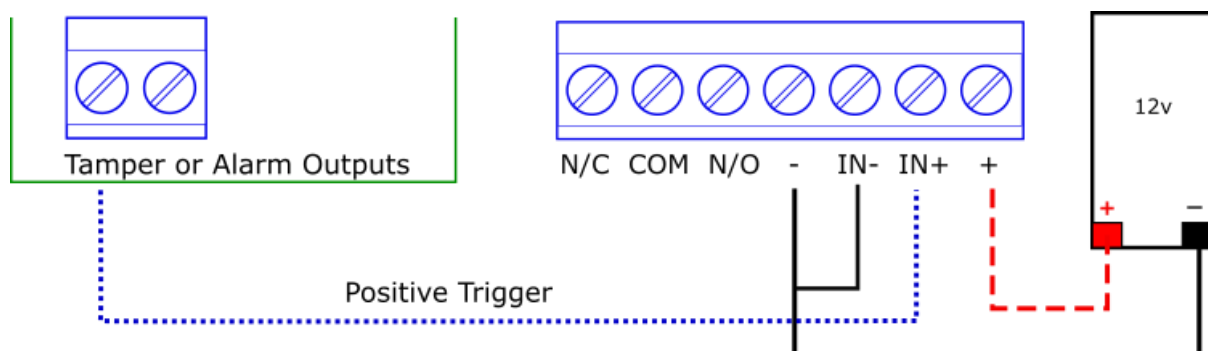
2.1 Monitor external devices for Alarm and Tamper signals

The optical input can be programmed to report Alarm, Tamper or Panic signals when triggered. Use this input to monitor Alarm & Tamper events on electric fence energizers, gate motors, alarm systems etc.

The input can also be programmed to have a Panic function. This will sound all beam sirens when the input is triggered.

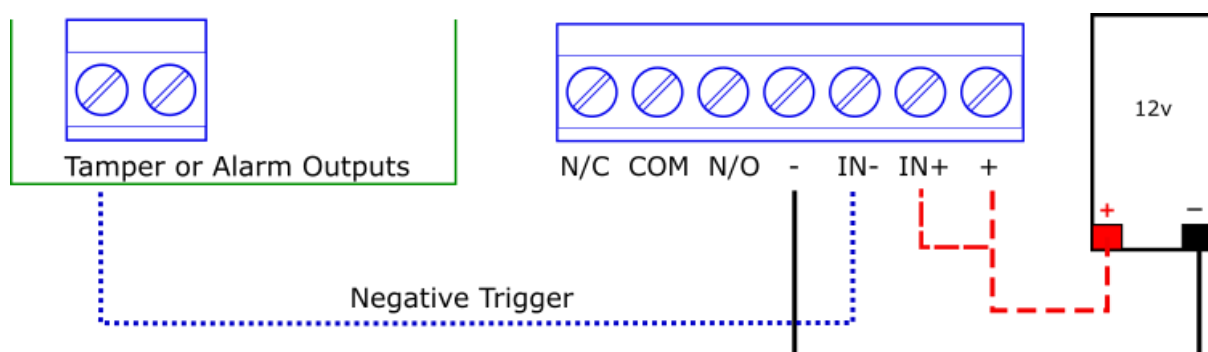
2.1.1 Positive trigger wiring

The input is triggered when a positive voltage is applied to the (IN+) terminal. (IN-) must be connected to the negative terminal.



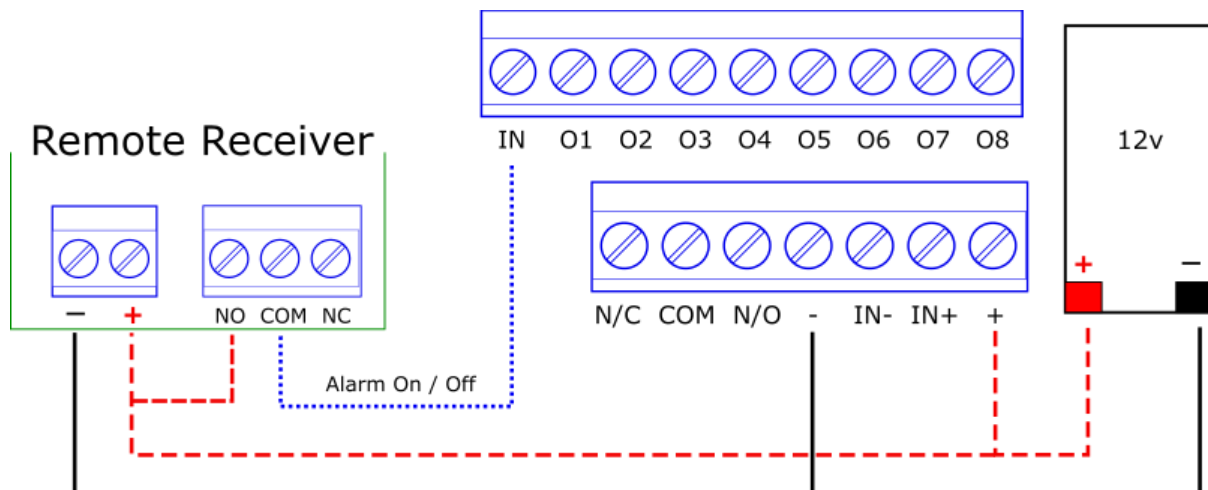
2.1.2 Negative trigger wiring

The input is triggered when the (IN-) terminal is connected to negative. (IN+) must be connected to the positive terminal.



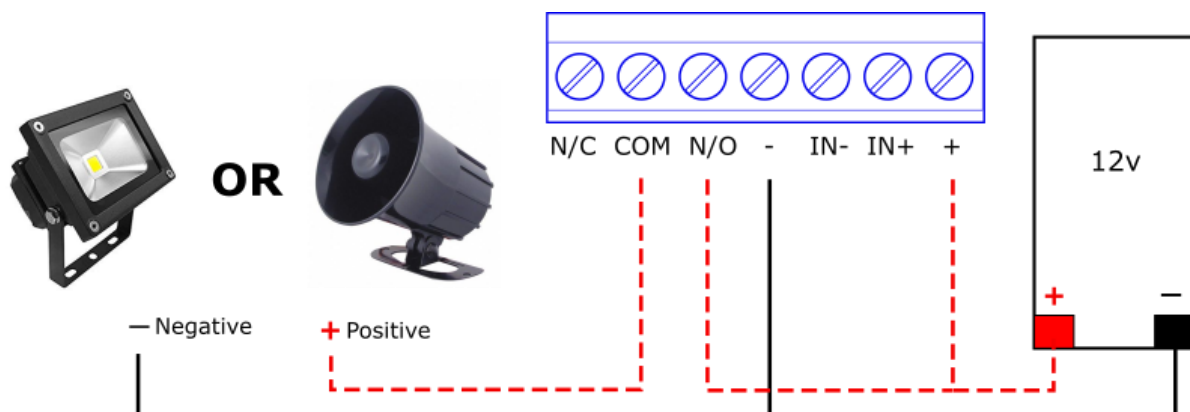
2.2 Remote receiver to Arm/Disarm the Kwêbeam system

A remote receiver can be connected to the (IN) input to Arm & Disarm the Kwêbeam system. The input can be programmed to accept a Pulsed or Latched signal.



2.3 Installing a Siren or LED spot light

The relay on the module can be used to connect additional sirens, lights etc. to the Kwêbeam system. The relay will activate when an Alarm signal is received while the system is armed. A Panic signal will also trigger the relay if O8 is set NOT to trigger on a Panic signal. (See section [Input and Output Configuration](#)). The “ON” time delay of the relay can be set from 1 second to 5 minutes.

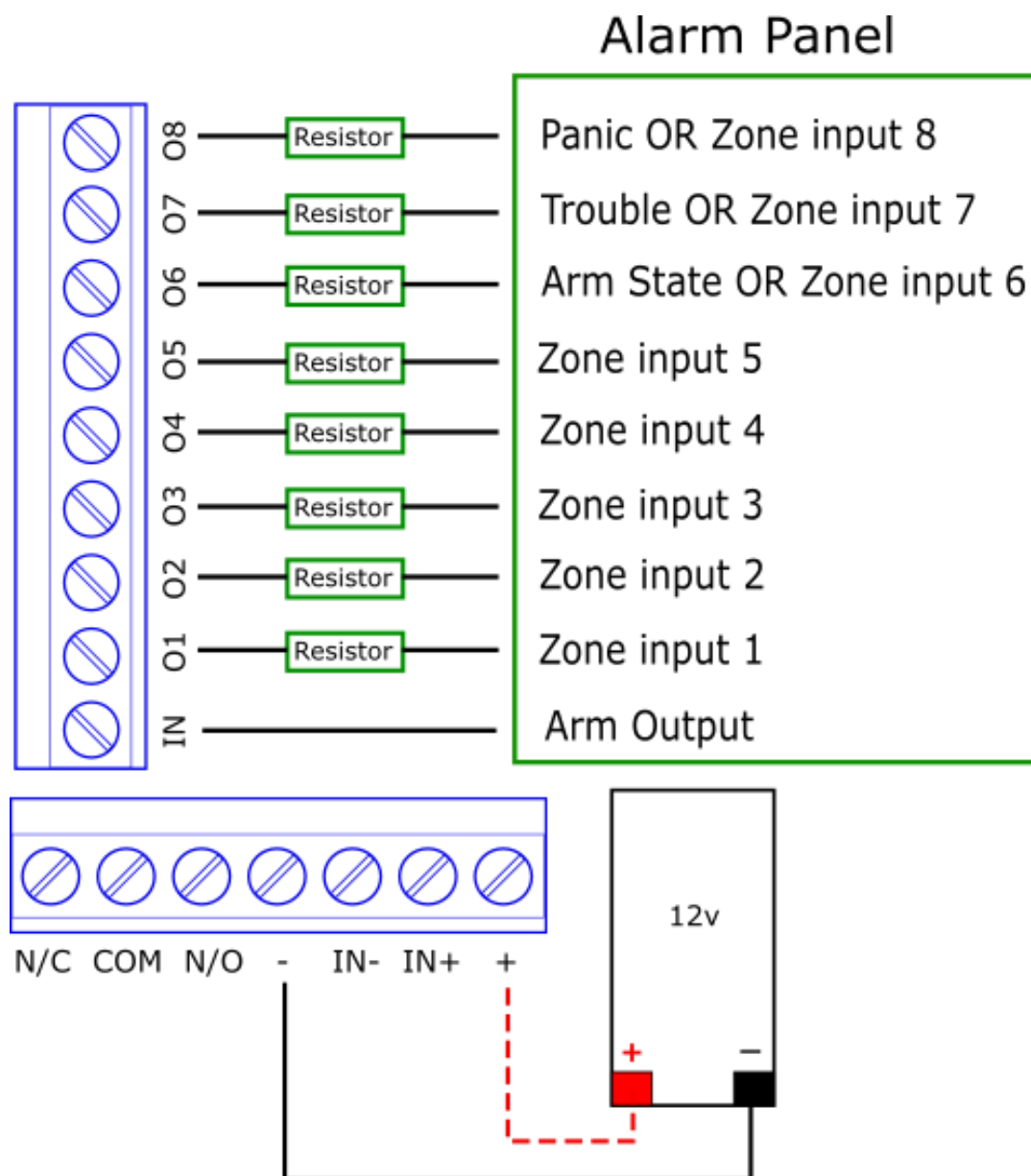


2.4 Wiring the Kwêbeam system to an existing alarm panel

The outputs on the Interface unit are connected to the alarm system panel inputs. When the wireless sensor sends an alarm signal, the Interface unit processes the signal and opens (by default, the output can be also set for closing) the wire output corresponding to the zone number of the sensor.

If it is mentioned that the alarm panel zone must have high resistance between the Interface unit output and the alarm panel input zone, the resistor required by the alarm panel must be placed with serial connection.

The “IN” input on the Interface unit must be connected to an output on the alarm panel to signal the Arm / Disarm status of the alarm system. The “IN” input can be programmed to Arm on either a Low or High signal. The input must be set to latch mode (default).



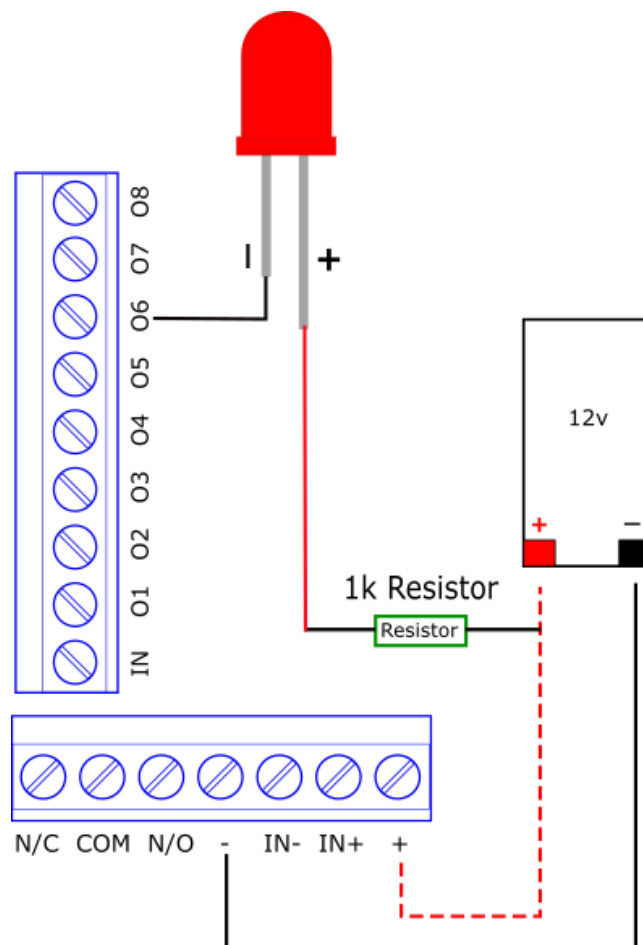
2.5 Connecting an Armed status LED indicator

Open drain output 6 can be configured to indicate the Armed status of the system. This feature is active when the “O1 – O8” mode under “device settings” in the APP is set to “O1 – O5 Alarm”. To activate this feature using the keypad, refer to section “[Change the Functionality of the 8 open drain outputs](#)” below.

In this mode, the eight open drain outputs will have the following functions:

- O1 to O5 will trigger when an alarm signal is received on the corresponding zone. Sensors on zones 6, 7 & 8 will also trigger Output 5.
- O6 will be Negative when the system is armed and open when disarmed.
- O7 will trigger when a Trouble signal is received.
- O8 will trigger when a Panic signal is received.

Below the wiring diagram for a status LED without a built-in resistor. Most Armed status LED indicators purchased from alarm retailers has a built-in resistor, the positive wire can then be connected to positive 12V without the resistor.





3 Input and Output Configuration



If the KwêHub is part of the system, it is recommended that the mobile App is used to change/update Input and Output settings.

If no Kwêhub is available, and only the keypad is part of the system, use this as an alternative method to change Input/Output settings on the Relay/Interface module.

- Make sure the system is NOT armed.
- Connect the Keypad to the Programming Port with the supplied cable.
- Press  to show current selection.
- Select the desired setting (see settings options below)
- Press & hold  to save the settings.
- A second long “beep” will indicate a successful save.

3.1 Change the INPUT settings

3.1.1 Set the function of the Optical Input

Press key 1 – 3 to set the input functionality of the optical Input

- Key 1 – Report Tamper event when triggered.
- Key 2 – Report Panic event when triggered.
- Key 3 – Report Alarm event when triggered.

3.1.2 Change the Arm / Disarm polarity of input “IN”

Key 4 on: IN triggers when the state changes from **Low to High**

Key 4 off: IN triggers when the state changes from **High to Low**

3.1.3 Relay Enable mode

Key 5 on: The output relay is enabled when the system is armed in Home OR Away mode.

Key 5 off: The output relay is **ONLY** enabled when armed in Away mode.

3.1.4 Change the Pulse / Latch mode of input “IN”

Key 7 on: Arm / Disarm with a pulsed input.

Key 7 off: Arm / Disarm with a latched input.

3.2 Change the OUTPUT settings

3.2.1 Change the Functionality of the 8 open drain outputs

Key 6 off:

- O1 – O5 represent Zone 1 – 5 on the Kwêbeam system & will trigger when an alarm signal is received on the corresponding zone. Note: Sensors on zones 6, 7 & 8 will also trigger O5.
- O6 will be Negative when the system is armed and open when disarmed.
- O7 will trigger when a Trouble signal is received.
- O8 will trigger when a Panic signal is received.

Key 6 on: O1 – O8 represent Zone 1 – 8 on the Kwêbeam system & will trigger when an alarm signal is received on the corresponding zone.


The relay will activate if a Panic or Alarm signal is received.

3.2.2 Change the Polarity of the 8 open drain outputs


Key 8 off: O1 – O8 are Normally Close (default).

Key 8 on: O1 – O8 are Normally Open.

3.3 Changing the ON delay of the relay output

- Press  to show the current delay for the relay output.
- Press key 1 – 8 to select the new ON delay:

1 = 1 second	5 = 1 minute
2 = 2 seconds	6 = 2 minutes
3 = 10 seconds	7 = 3 minutes
4 = 30 seconds	8 = 5 minutes

- Press & hold  to save the new setting.
- A second long “beep” will indicate a successful save.