Honeywell V12 & V48 Alarm Panel

- ✓ **_Keyswitch wiring_**
- ✓ **_Keyswitch programming_**

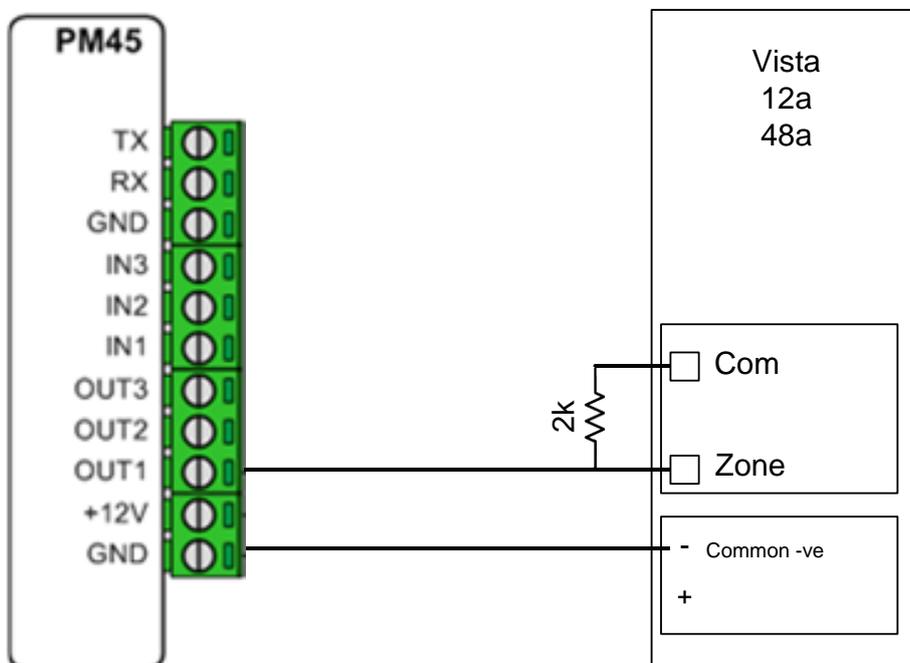NB: V48v4.1 DO NOT zone double for keyswitch zone

Background: There are three (3) Outputs available.
- Outputs are 'Open Collector' @50mA switching negative - for heavier loads a relay must be used.
- Outputs can be used for e.g. Keyswitch, opening gates or doors etc.
- Ensure there is a common negative between Permaconn and the device being switched.
- The outputs can be Opened, Closed or Pulsed remotely using the Permaconn Atlas web portal.
- The Pocket Secure App can only 'Pulse' the Outputs. A Pulse is approx 1sec.
    Compatible with 'Pocket Secure' remote arming App, available on iTunes, Google Play and the Windows Phone Store.
- These outputs when wired to a Keyswitch zone on the Alarm Panel can arm & disarm up to a maximum of three (3) areas when using 'Pocket Secure' app.
- Each area should be independently controlled using a separate Keyswitch zone.
- Arm/Disarm reporting **MUST be Enabled**. Pocket Secure App requires this for its status notifications.
- Test each Output by placing the +ve leg of a multi meter on the +ve terminal that supplies power to the Permaconn, then place the -ve leg of a multi meter on the Output terminal you wish to test. Pulse the selected Output the result should go from 0v DC to 12v DC for approx 1sec and back to 0vDC.

E.g. 1: Keyswitch wiring between Permaconn and Honeywell v12 / 48 Alarm Panel single zone Not Using Zone Doubling:

Fit EOL resistor in parallel with zone input, then install a wire between the PM45-3G output and the zone input.
The zone must then be programmed for 'Momentary Keyswitch' operation.

Example programming showing v48, Zone 8 as Keyswitch on a PM45v3 3G.

- Each area should be independently controlled using a separate Keyswitch zone.
- Any zone can be used as a keyswitch zone.

NB: You must use an Alpha keypad for zone programming
Press * field number to edit or # field number to view/feed back

Programming a Keyswitch zone. Not zone doubled. Example programming showing Zone 8 as Keyswitch.
Enter program mode: 4 digit installer coder + 800.
- Press * 56 (for zone programming).
- Select 0 for set to confirm.
- Enter zone number 08 (v48) and press * key,

Summary screen no data input press * key. ⟶

Zn	ZT	P	RC	HW: RT
08	00	1	10	EL 1

- Enter 77 for zone type (Keyswitch) press * key
- Select partition the Keyswitch resides in (1 or 2 for v12) (1,2or3 for v48) press * key.
- Enable reporting of the Keyswitch select 01 (00 disables reporting) press * key.
- Hardware Type: leave as 0 (EOL) press * key.
- Select response time: Default is 1 =400ms
  NB: If Keyswitch responds as tamper Zn 08 or Arms in stay mode change to 0 = 10ms.

Summary screen no data input press * key. ⟶

Zn	ZT	P	RC	HW: RT
08	77	1	10	EL 1

- Enter zone number, select 00 to exit (*56 zone programming mode).
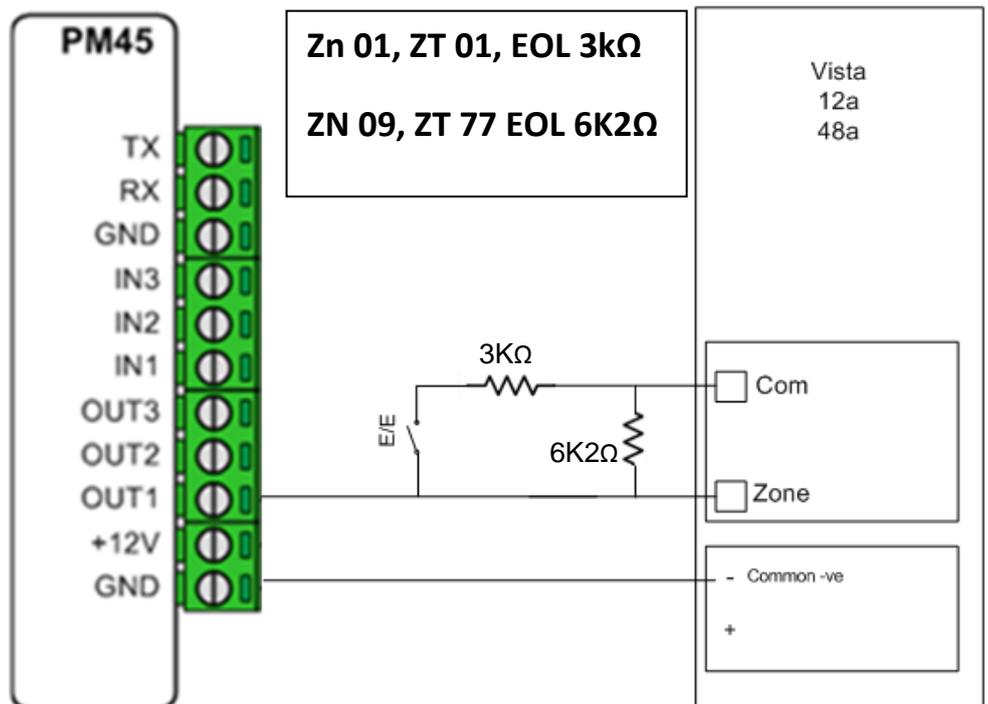
Choose 1 of 3 options
1) If Keyswitch is on partition 1 exit programming mode press * 99.
2) If Keyswitch is on partition 2, press * 45 (P2 account number) input 4 digit account number. Then to exit programming mode press * 99.
3) If Keyswitch is on partition 3 (v48 only) field 30 must be 0. press * 51 (P3 account number) input 4 digit account number. Then to exit programming mode press * 99.

E.g. 2: Keyswitch wiring between Permaconn and Honeywell v12 / 48 Alarm Panel Using Zone Doubling:
Example programming showing v48, Zone 09 as Keyswitch on a PM45v3 3G.

Vista 12 Zn double	
1	9
2	10
3	11
4	12
5	13
6	14

Vista 48 Zn double	
1	9
2	10
3	11
4	12
5	13
6	14
7	15
8	16

Zn 01, ZT 01, EOL 3kΩ

ZN 09, ZT 77 EOL 6K2Ω

Keyswitch programming using Zone Doubling:

Programming a Key switch zone. Zone doubled. Example programming showing Zone 1 as E/E zone type and Zone 9 as Keyswitch.   Enter program mode: 4 digit installer coder + 800.

- Press * 56 (for zone programming).
- Select 0 for set to confirm.
- Enter zone number 01 and press * key,

Summary screen no data input press * key. ⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⟶

```
Zn ZT P RC   HW: RT
01 00 1 10   EL  1
```

- Enter 01 for zone type (Entry/Exit) press * key
- Select partition must be the same as the key switch resides in (1 or 2 for v12) (1,2or3 for v48) press * key.
- Enable reporting select 01 (00 disables reporting) press * key.
- Hardware Type: Select option 3 (ZDBL) press * key. (Automatically enables zone 9)
- Select response time: Default is 1 =400ms.
  NB: If Keyswitch responds as tamper Zn 09 or Arms in stay mode change to 0 = 10ms.
- Summary screen no data input press * key. ⎯⎯⎯⎯⎯⎯⎯⎯⎯⟶
- Enter zone number 09 and press * key,

```
Zn ZT P RC   HW: RT
01 01 1 10   ZD  1
```

Summary screen no data input press * key. ⎯⎯⎯⎯⎯⟶

```
Zn ZT P RC   HW: RT
09 00 1 10   EL  1
```

- Enter 77 for zone type (Keyswitch) press * key
- Select partition the Keyswitch resides in (1 or 2 for v12) (1,2or3 for v48) press * key.
- Enable reporting of the Keyswitch select 01 (00 disables reporting) press * key.
- Select response time: Default is 1 =400ms
  NB: If Keyswitch responds as tamper Zn 09 or Arms in stay mode change to 0 = 10ms.

Summary screen no data input press * key. ⎯⎯⎯⎯⎯⎯⟶

```
Zn ZT P RC   HW: RT
09 77 1 10   EL  1
```
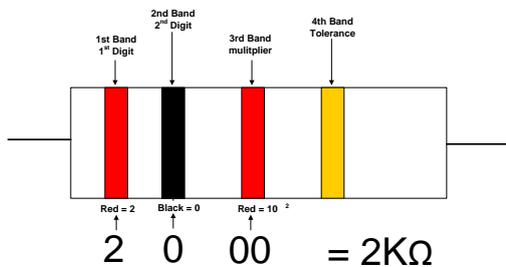
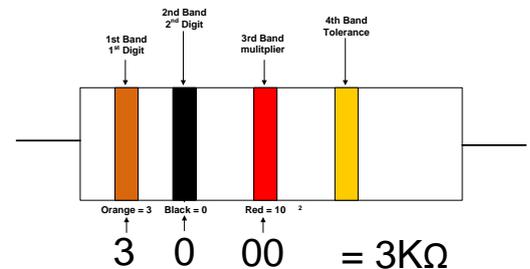- Enter zone number, select 00 to exit (*56 zone programming mode).

Choose 1 of 3 options
1) If Keyswitch is on partition 1 exit programming mode press * 99.
2) If Keyswitch is on partition 2, press * 45 (P2 account number) input 4 digit account number. Then to exit programming mode press * 99.
3) If Keyswitch is on partition 3 (v48 only) field 30 must be 0. press * 51 (P3 account number) input 4 digit account number. Then to exit programming mode press * 99.

2KΩ resistor

3KΩ resistor

6K2Ω resistor

Red = 2   Black = 0   Red = 10 ^{2}

$$2 \quad 0 \quad 00 \quad = 2K\Omega$$

Orange = 3   Black = 0   Red = 10 ^{2}

$$3 \quad 0 \quad 00 \quad = 3K\Omega$$

Blue = 6   Red = 2   Red = 10 ^{2}

$$6 \quad 2 \quad 00 \quad = 6K2\Omega$$