

VixNet Lion Alarm Panel Transceiver

Installation Instructions

Supplied items

- Lion Transceiver unit
- Antenna
- Installation instructions

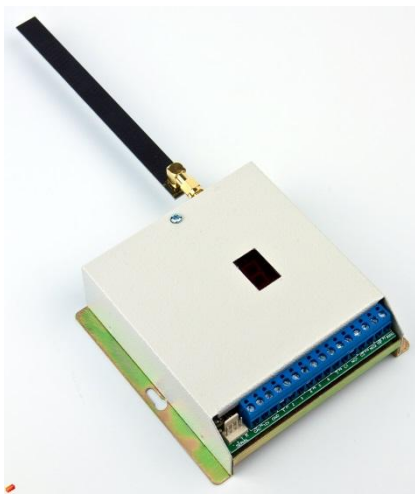


Figure 1

Wall mounting

Affix the QAI Lion transceiver to a wall or some other vertical structure. The antenna connector should be pointing upwards and the exposed terminal block downwards.

Antenna connection

Connect the supplied antenna to the co-axial connector on the top of the Lion transceiver. Position the antenna such that the VixNet logo and part number are facing away from the wall on which the transceiver is mounted. Tighten the nut on the antenna connector as tight as possible using two fingers. *Do not use a spanner. This will damage the connector.*

Power connection

All power and alarm connections to the Lion are made via the exposed terminal block.

Do **NOT** use multi-core alarm wire. 12 V_{DC} (nominal 13.2V) is supplied by the alarm panel to which the Lion is connected. This is usually a managed power supply with a back-up battery for mains supply failure. Connect the 12V and GND using wire with a minimum size of 0.5mm or cabtire.

Alarm input connections

Connect each of the seven alarm inputs and the mains fail detection input to the terminal block terminals as per the details shown listed in Figure 2.

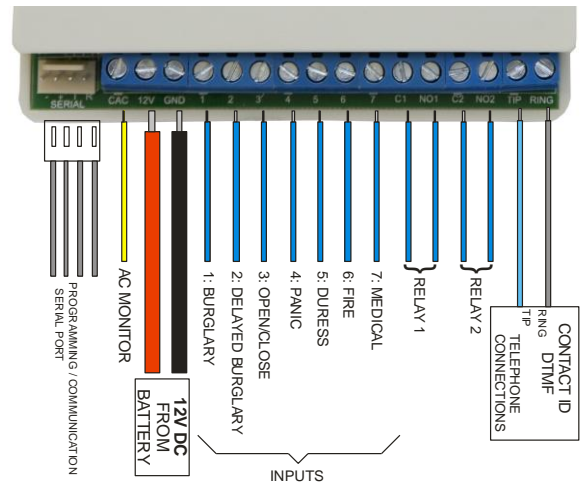


Figure 2

Input definitions

The allocation of each of the Lion inputs is shown in Table 1. Input 3 requires a latched input and operates in the following manner.

- No pull-up jumper, high is for open
- No pull-up jumper, low is for close
- Pull-up jumper inserted, high is for close
- Pull-up jumper inserted, low is for open

| Input | Default Usage | Data |
|------------|--------------------|------|
| CAC | AC Monitor fail | 8 |
| | AC Monitor restore | 10 |
| 1 | Burglary | 1 |
| 2 | Delay burglary | 2 |
| 3 | Open | 3 |
| | Close | 9 |
| 4 | Panic | 4 |
| 5 | Duress | 5 |
| 6 | Fire | 6 |
| 7 | Medical | 7 |
| Pushbutton | Test | 31 |

Table 1

Input trigger sense

Inputs 1 to 7 may be configured for either a positive (POS) or negative (NEG) sense. If the external device generates the alarm by pulling the input to ground (negative trigger), the pull-up jumper should be inserted on the relevant input of the Lion.

CAC - Mains Fail/Restore

The Check AC (CAC) input detects the presence of the AC supply and is used to check for mains power failure. The CAC line should be connected to one of the transformer’s SECONDARY terminals. Do **NOT** connect this line to the mains. The CAC line will detect AC voltages between 10 and 24 VAC.

Input 2 - Delay burglary

Depending on the input trigger sense, either a high or low voltage must be present for 15 s for an alarm to be triggered.

Input 3 - Open/Close

The Open/Close input requires a latched source and operates in the following manner.

Pull-up jumper inserted (NEG)

- Close alarm when the input goes low for 100 ms.
- Open alarm when the input goes high for 100 ms.

Pull-up jumper absent (POS)

- Close alarm when the input goes high for 100 ms.
- Open alarm when the input goes low for 100 ms.

Test button

The push-button, labeled “SW1” (shown in Figure 3) on the Lion has two functions.



Figure 3

Press and hold for approximately ½ s will cause a test transmission to be sent. This has the unique transmission code of ‘31’ and is identified as a test transmission by the monitoring centre.

Press and hold the test button while powering the Lion on will set the serial port panel type. The seven segment display will flash the current mode. To change the mode, press the button for a minimum ½ second and the display will flash the new panel type. The set serial port panel type mode will be exited if no additional button push is received for 15 seconds. Table 2 shows the panel serial port options.

| Display | Serial Port Selected |
|---------|--------------------------------|
| T | Texecom premier range |
| P | Paradox E65, SP6000 and MG5050 |
| F | Pima |

Table 2

Details of the serial port cables and programming can be found in the Lion data sheet.

Relay outputs

Two dry-contact relay outputs are available on the Lion. These outputs can be commanded to turn on and off via the VixNet network. The outputs are rated to 24V AC or DC, up to a maximum of 5A.

Do not connect the relay outputs to mains supply.

Details of the relay output modes can be found in the Lion data sheet.

Contact ID installations

The Lion can accept signals that are to be sent by the alarm panel over telephone lines. Connect the alarm panels TIP and RING connections to the TIP and RING connections on the Lion.

7 Segment display

On start-up, the Lion will display its software version, e.g. ‘2’ ‘0’ ‘9’ for software version 2.09. During normal operation the display will show information about its current status and any errors. Details are shown in Table 3.

| Display | Meaning |
|---------|--|
| 0 | No paging reception – do not use |
| 1 | Very poor paging reception – do not use |
| 2 | Poor paging reception, look for better location |
| 3 | Paging reception acceptable, try for a better spot |
| 4 | Paging reception good |
| 5 | Paging reception excellent |



Table 3

There are a number of other codes shown on the 7 segment display. Please refer to the Lion data sheet for details of all codes.

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