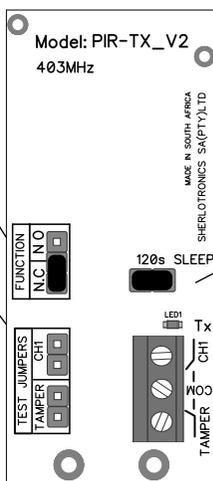


## Jumper Configuration settings:-

**FUNCTION** jumper sets the unit to trigger from either a N.O (Normally Open) or a N.C (Normally Closed) Contact.

**TEST** jumpers Bridge these jumpers for a few seconds when you want to LEARN it into a Receiver unit.



Bridging this jumper sets the unit to go to sleep mode for 120 seconds. Ch1 & Tamper will not re trigger for 120 Seconds. This is recommended for PIR's in high activity zones where power saving is required.

## Battery Life Calculations:

It is extremely important in establishing how many times this device would be activated within an average day under normal conditions to establish the units battery life.

Triggers per hour	Triggers per day	Battery Life in Days	Battery life in Years
30	720	181	0.50
20	480	271	0.74
10	240	542	1.49
5	120	1083	2.98
4	96	1354	3.72
3	72	1806	4.96
2	48	2708	7.44

## Warranty Policy:

This product is covered by this warranty for a period of one (1) year immediately subsequent to the date of purchase indicated on the relevant invoice.

SHERLOTRONICS will replace or repair, at its option within a reasonable period of time, after it receives the product, any part that proves to be defective in materials or workmanship. The cost of parts and labour are included. All other costs are the responsibility of the purchaser.



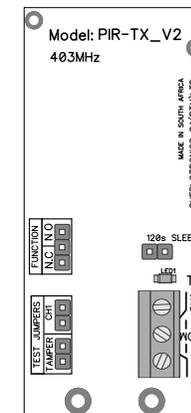
251 Aintree Ave, Northriding, Randburg, Johannesburg, South Africa.  
Tel: +27 (0)11 462-5101 Fax: +27(0)11 462-8177 www.sherlotronics.com

## PIR Transmitter Module

## Version 2

### Specifications:-

Encryption..... Code-Hopping Encryption  
 Frequency..... 403.55Mhz  
 Transmitting range outdoors..... 800m (Clear line of site)  
 Transmitting range installed..... 75m (Mounted in a passive on a wall)  
 Power input range..... 3.5V ~ 2.0V DC  
 Current drain (In standby)..... <math>1\mu A</math>  
 Current drain (Transmitting)..... 15 mA @ 3.5V DC  
 Battery duty life cycle..... 130 000 activations  
 Dimensions..... 72 x 32 x 30 (LxBxH)  
 Weight with batteries ..... 45 grams  
 Warranty..... 1 year  
 PCB ref no..... PIR\_TX\_V2  
 Product release date..... February 2014



### Whats New:-

The New Version 2 **PIR transmitter** is has an improved battery life expectancy of more than double that of the original design. We have also incorporated a 120 Second Sleep Jumper setting for enabling the unit to not re-trigger continuously if it is installed into a motion detector that has a high trigger rate. This will improve battery life and prevent the unit from congesting the frequency.

### Function & Application:-

The **PIR transmitter** unit is designed to be inserted into devices typically such as passive infrared motion detectors but you can also wire the units up to a span of other security modules such as magnetic door contacts, fire glass break boxes, battery operated smoke detectors, N.O or N.C key-switches, emergency push buttons to name a few applications.

The unit is battery powered by two AA (1.5V) Alkaline batteries. The unit has a helical aerial neatly mounted under the PCB. A battery compartment holds the two AA batteries.

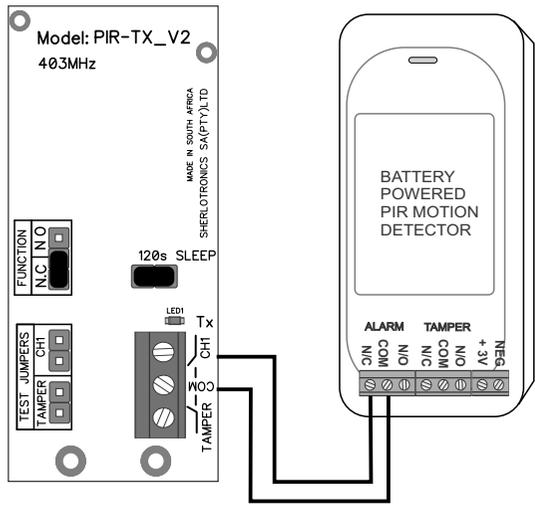
The unit monitors the battery voltage and will automatically output a low voltage signal when the voltage reaches its critical level of 2.0V DC. The Low battery signal is detected on our MB4000 and indicates a Battery Low output.

### Programming CH1 or TAMPER to a Receiver:-

- Step 1....Press the LEARN button on the relevant receiver module.
- Step 2....Bridge out either the **CH1 TEST** Jumper until the signal is Learnt into the relevant receiver. The unit will auto increment its sink value so that it easily learns into a receiver.  
The TX LED will flash while the unit is transmitting. Max of 10 transmissions.
- Step 3....Remove the bridge from the TEST JUMPERS when the unit is successfully learnt into a receiver and then test.

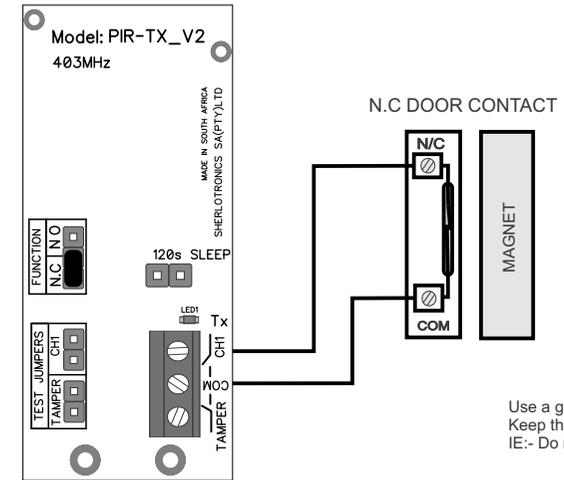
# Wiring Diagram:- Typical applications

Connecting a N.C Alarm output



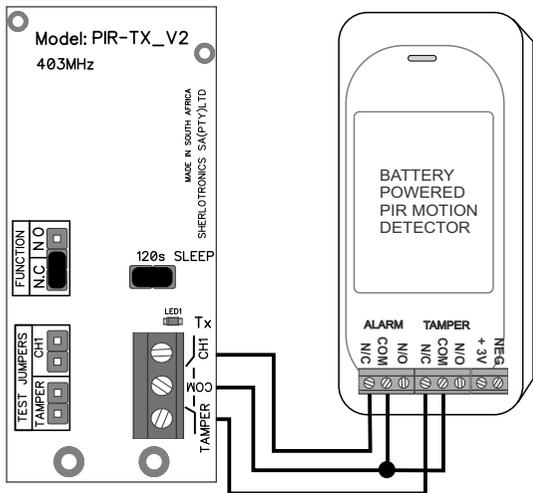
All inputs have a 500milli Second trigger delay so will require a slightly longer trigger input before the unit will work.

Connecting a N.C Door contact



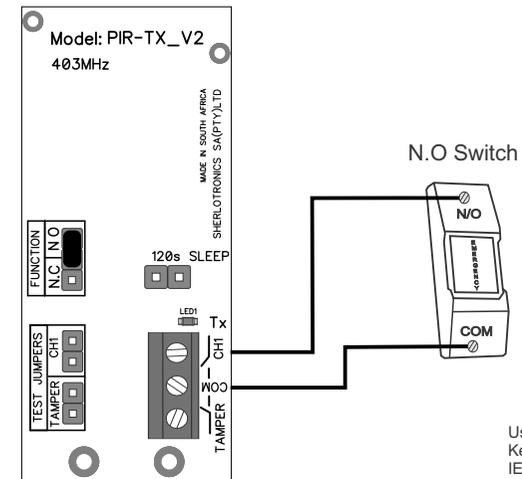
Use a good quality stranded copper cable. Keep the cable length as short as possible. IE:- Do not exceed more than 10 meters

Connecting a N.C Alarm output & Tamper



All inputs have a 500milli Second trigger delay so will require a slightly longer trigger input before the unit will work.

Connecting a N.O Switch contact



Use a good quality stranded copper cable. Keep the cable length as short as possible. IE:- Do not exceed more than 10 meters