TX9929

Medium Power Long Range Remote Control Transmitter (DC 12V)

(SAW filter stabilized) **315 MHz**

Application

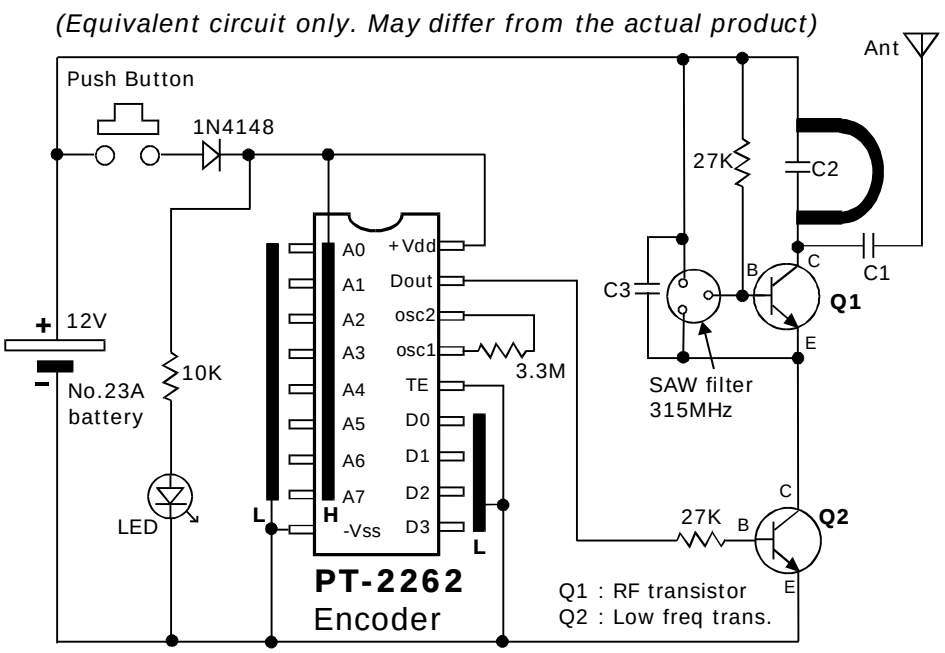
1) Long range remote control
2) Remote door bell & switches
3) General purpose remote control transmitter

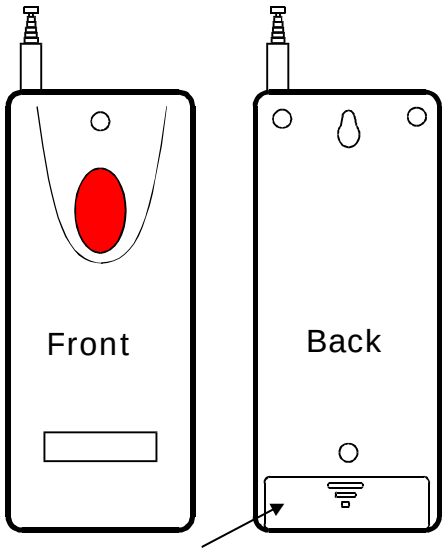
Specifications : *(supplied by manufacturer)*

Operating voltage : DC 12V *(use **GP** No. 23A alkaline battery)*	**Operating current : < 15mA**
Oscillator : SAW filter stabilized	**Modulation : ASK** (**A**mplitude-**S**hift-**K**eying)
RF frequency : 315 MHz *±150KHz(max)*	**RF Power : 30 mW**
Encoder : PT2262 digital encoder IC	

Schematic

(Equivalent circuit only. May differ from the actual product)





About PT2262 encoder

The **PT2262** encoder IC has 6561 possible address codes (3^8 = 6,561).

A0 ~ A7 : ***Tri-state*** Address bits (8 trinary bits)

Each address pin can assume one of the 3 possible states.

i.e : **H** (logic **1**) *(usually the +ve supply of the circuit)*
L (logic **0**) *(usually the ground of the circuit)*
F (floating) *(not connected)*

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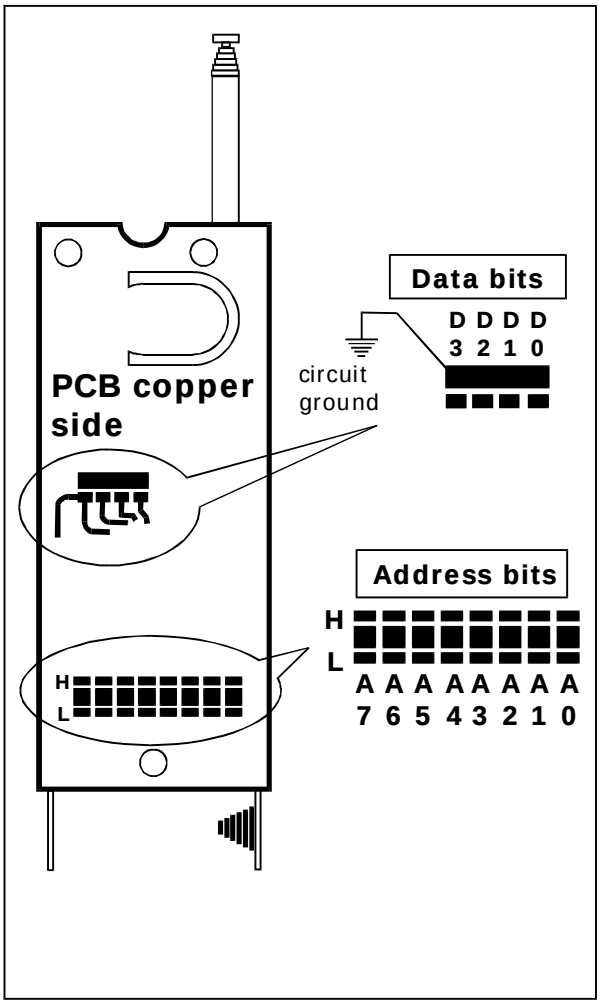
D0 ~ D3 : ***Binary*** Data bits (4 binary bits)

Each data pin can be either **H** or **L**
i.e : **H** (logic **1**) *(usually the +ve supply of the circuit)*
L (logic **0**) *(usually the ground of the circuit)*
Important note: if a data pin is left open (floating), that particular bit will be encoded as logic **1**

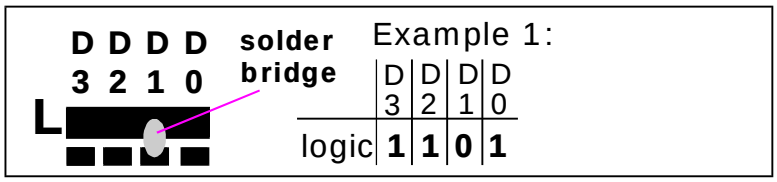
Operation Pressing the button, TX9929 will transmit a 12 bit serial code (8-bit address + 4-bit data) continuously. Transmission stops when the button is released.

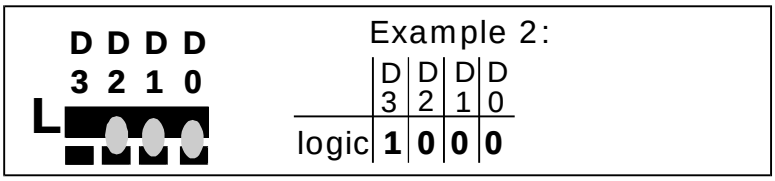
Programming Instruction

(you will need a soldering iron for soldering the address or data pin(s) to the +ve ot -ve copper strip(s))

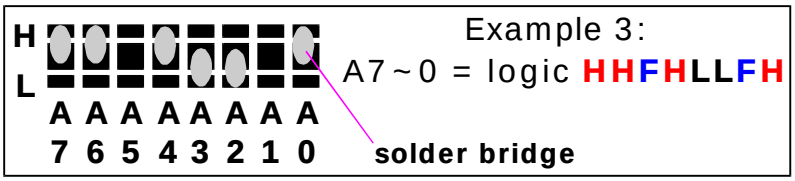


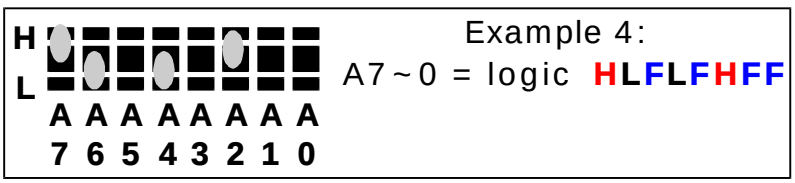
Data pins : D3, D2, D1, D0
NOTE : an open pin is encoded as logic 1





Address pins : A7, A6,..., A0





Important note: Avoid using the address code "LLLLLLLL" (all address pins grounded). The chance of a decoding error is extremely high if you use this code.