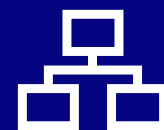


R-IDENT

TRANSMITTER TAGS: TX



COLTER GROUP

19/07/2005 Ver 1.3

INTRODUCTION:

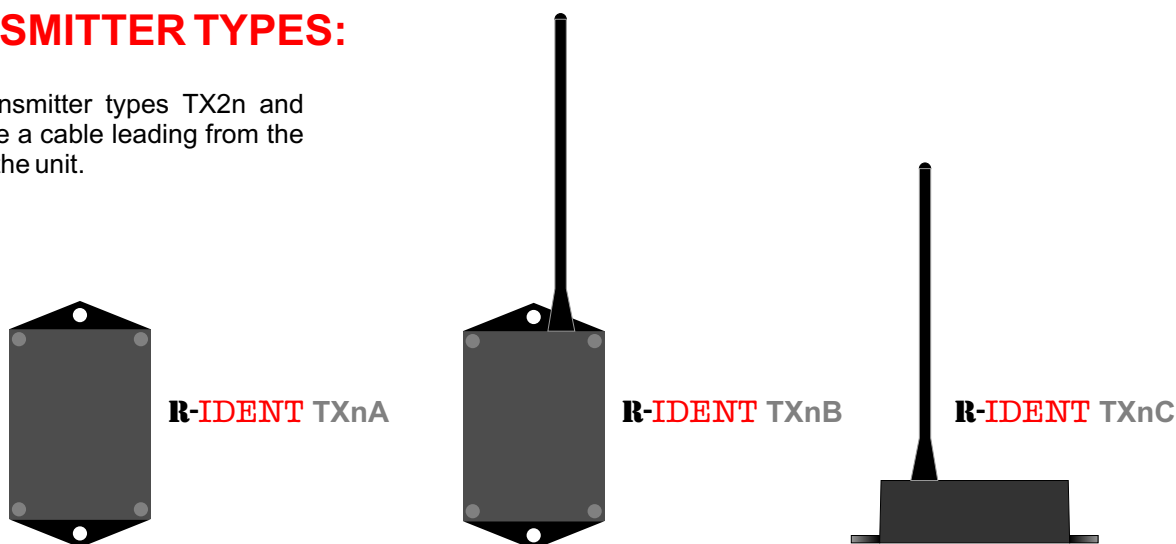
R-IDENT is a low cost, low power radio tagging system with a range of up to 200m. Each transmitter broadcasts a packet of information three times every minute. This packet consists of the tag's unique code number, status of inputs, battery status, and input active hours count.

Any TXnn transmitters can be used with any of the RXnn receivers. The receivers can use the information within a data packet to identify and trace equipment, monitor input status, record active hours or detect missing items.

The TXnA transmitters have an internal aerial and have a range of upto 125m.
 The TXnB transmitters have an external whip aerial and have a longer range of upto 200m.
 The TXnC transmitters are the same as the TXnB transmitters except that they are designed for horizontal mounting on a flat surface.

TRANSMITTER TYPES:

Note: Transmitter types TX2n and TX3n have a cable leading from the bottom of the unit.



SPECIFICATIONS:

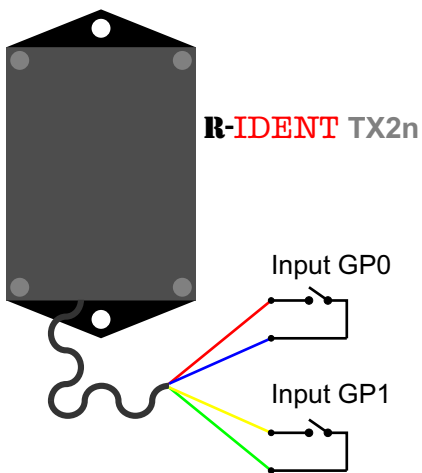
Specifications: All TXs

RF Characteristics:	Low power 433MHz (license exempt in the UK and Europe).
Battery Life:	Typically 8 years, non-replaceble
Operating Temperature:	-20°C to +85°C
Weight:	175g (internal aerial) 240g (external aerial)
Dimensions:	63.5mm wide, 122mm high, 28.5mm deep
Ingress Protection	I.P. 68

Specifications: TX specific

	Transmitter Type		
	TX1n	TX2n	TX3n
Number of Inputs:	0	2	2
Input GP0:	N/A	Volt-free input - when a contact is closed the input GP0 will be shown as 'ON' in the data packet. The 'Hours ON' time within the transmitter is also accumulated when this input is 'ON'	Externally Powered input - when a voltage in the range +8 to +30Vdc is connected the input GP0 will be shown as 'ON' in the data packet. The 'Hours ON' time within the transmitter is also accumulated when this input is 'ON'
Input GP1:	N/A	Volt-free input - when a contact is closed the input GP1 will be shown as 'ON' in the data packet.	Externally Powered input - when a voltage in the range +8 to +30Vdc is connected the input GP1 will be shown as 'ON' in the data packet.

INPUT CONNECTIONS:

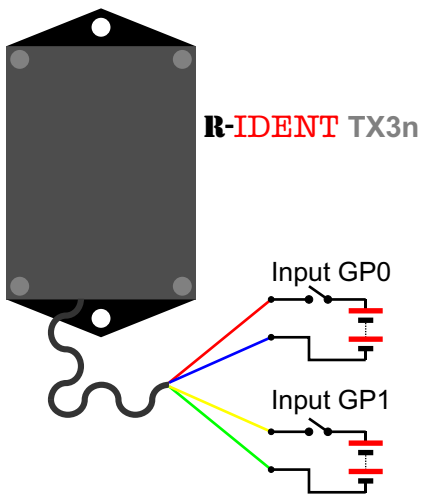


Input GP0: RED wire and BLUE wire.

Connect a contact across the red and blue wires as shown, when the circuit is complete ie the contact is closed then the input will be shown to be 'ON' in the packet of information that the transmitter sends. The 'input active hours count' number will also start to increment while the input is on.

Input GP1: YELLOW wire and GREEN wire.

Connect a contact across the red and blue wires as shown, when the circuit is complete ie the contact is closed then the input will be shown to be 'ON' in the packet of information that the transmitter sends. The 'input active hours count' number will also start to increment while the input is on.



Input GP0: RED wire and BLUE wire.

Input is 'ON' when +8 to +30Vdc is connected across it.

Red wire to be connected to +8 to +30Vdc by a switched contact
Blue wire to be connected to 0V

When the circuit is complete ie the contact is closed then the input will be shown to be 'ON' in the packet of information that the transmitter sends. The 'input active hours count' number will also start to increment while the input is on.

Input GP1: YELLOW wire and GREEN wire.

Input is 'ON' when +8 to +30Vdc is connected across it.

Yellow wire to be connected to +8 to +30Vdc by a switched contact
Green wire to be connected to 0V

Connect a contact across the red and blue wires as shown, when the circuit is complete ie the contact is closed then the input will be shown to be 'ON' in the packet of information that the transmitter sends.

PART NUMBERS:

Part N.o: Description:

TX1A	Transmitter tag with no inputs and internal aerial.
TX1B	Transmitter tag with no inputs and external aerial.
TX1C	Transmitter tag for horizontal mounting with no inputs and external aerial.
TX2A	Transmitter tag with two volt-free inputs and internal aerial.
TX2B	Transmitter tag with two volt-free inputs and external aerial.
TX2C	Transmitter tag for horizontal mounting with two volt-free inputs and external aerial.
TX3A	Transmitter tag with two externally powered inputs and internal aerial.
TX3B	Transmitter tag with two externally powered inputs and external aerial.
TX3C	Transmitter tag for horizontal mounting with two externally powered inputs and external aerial.

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