



Innovative Electrical Automation Solutions

Wireless Contactor Control

The Wireless Contactor Control provides a relay output that wirelessly mirrors the state of the grid protection relay. This can prove useful in systems where a wired link may be either unfeasible or impracticable.

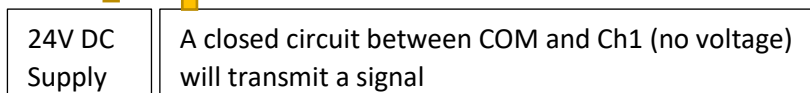
The PentaCODE transmitter/receiver pair provide both instant-on and instant-off functionality, as well as off-on-disconnect, complying with Energy Queensland STNW1174 s4.7.2/s4.7.4.1

The transmitter/receiver pair are supplied pre-paired and with antennas. A DIN-mount power supply is provided for powering the transmitter, the receiver is directly powered via 240VAC.

Module Wiring Layout

Please refer to the Wiring Diagram IPS_WCC_04A01 which should be included with this document.

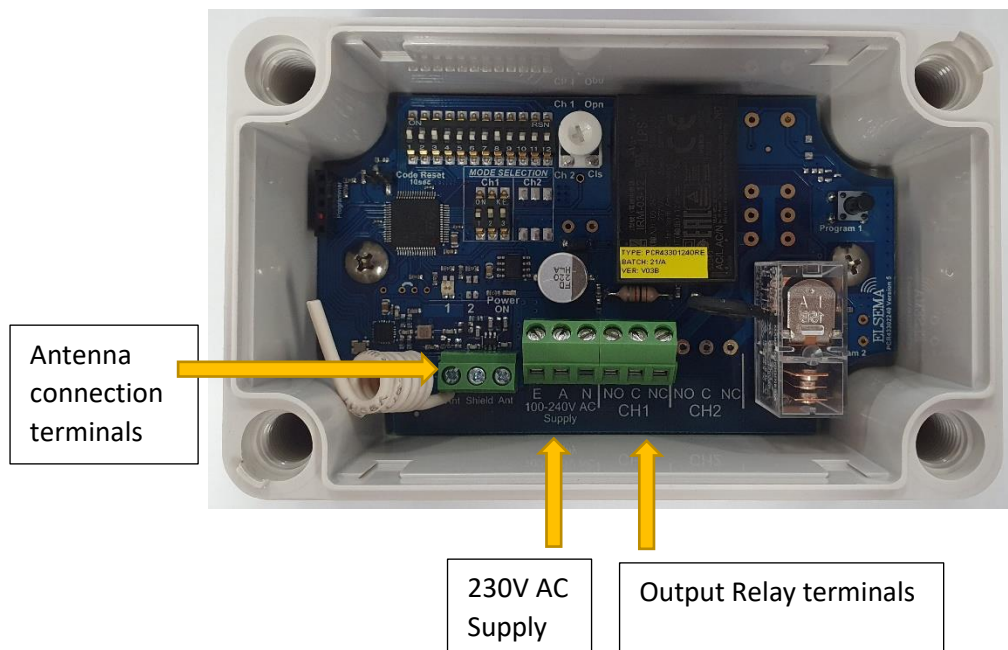
Transmitter



Antenna Mounting and Wiring

It is recommended that the antenna be mounted as high as practicable, and that the path between the pair be free of obstructions. The wireless pair is supplied with a pair of 433MHz 4.5dBi antennas. A 6dBi antenna upgrade option can be purchased if the customer requires an extended range.

As the receiver has no SMA connector, the antenna must be wired directly to the Ant/Shd terminal block. Wire the shielding braid to the shield output, and antenna core to the ANT connection (remove small pigtail antenna).



Settings:

These settings are pre-programmed by Integrelec but listed here in case adjustments need to be made.



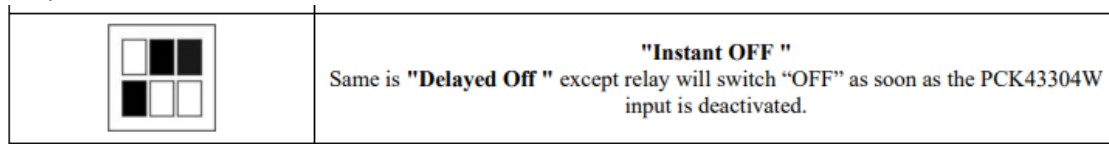
The red DIP switches on the transmitter must both be set to OFF

Please ensure the set of 12 DIP switches on the transmitter and receiver are in matching configurations.

Integrelec by default has switches 1, 3 and 8 in the up position and the rest of the switches in the down position. If two sets are mounted close to each other one of the sets must be set to a different configuration or interference will occur.

The potentiometer in the transmitter must be set to the minimum position (far left if antenna at top).

The potentiometer on the receiver must be set so to "Instant OFF" mode.



The potentiometer on the receiver should be set so that the trip delay is less than the 5 seconds on a loss of transmitter signal (due to a power delay) as mandated by Energex and Ergon, while being long enough to avoid nuisance trips. Generally, as close to 5 seconds as possible while remaining below that limit is desired, this should have been pre-set by Integrelec.

