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# Parrot Wireless VF4 IN VF4 OUT cable replacement - Quick start guide

**This manual offers comprehensive, step-by-step guidance for configuring and operating the radio transmitter and receiver system. The system wirelessly communicates the status of each switch input to the receiver, which generates four corresponding volt-free outputs. This enables reliable, remote duplication of contact states for industrial monitoring and control applications. All Parrot devices are supplied pre-paired and fully calibrated, ensuring straightforward installation and immediate operational readiness.**

**** IMPORTANT SAFETY INFORMATION****

- Please read this document entirely before beginning.
- Installation and use of this information and this system is to be performed by a competent, trained person only.
- Danger of electric shock.
- Always power down the system before making or changing wiring connections.
- Ensure all connections are secure to prevent accidental shorts or open circuits.

**Quick Start**

The system operates out of the box. Wire as shown, apply power, and it will run automatically. For adjustments, see this guide.

## System Wiring and Setup

**1. Transmitter Power**

Connect +24 V DC to the transmitter's positive input and 0V (ground) to its power ground.

**2. Receiver Power**

Connect +24 V DC to the receiver's positive input and 0V (ground) to power ground.

**3. Radio Link**

Power both units and ensure they are within range. Each transmitter/receiver pair is factory-set with a standard address. If multiple pairs are used, change addresses as described in section 4.

**4. Address Pairing**

a) Open transmitter and receiver covers to access the USB serial port.
b) Connect via USB to a PC and open a serial terminal (9600 bps, 8-N-1, no flow control).
c) Enter top-level menu (press ESC twice if idle), select 3 = Radio Parameters, then 2 = Set Address.
d) Assign a 2-character address (e.g., "S1"). Both transmitter and receiver must match. (Default = "II" as in the letters i and i). To change the address press backspace twice (to erase the old settings), then the new address characters followed by enter.

**5. Change Channel**

a) From the top-level menu, select 3 = Radio Parameters, then 3 = Set Channel.
b) Specify the desired channel number from 0 to 9.
c) Ensure both transmitter and receiver are set to the same channel.

**6. Receiver Output**

a) Wire load or monitoring circuits to Relay 1–4 output terminals.
b) Relay 1–4: Mirror the state of their corresponding transmitter inputs, unless the fault relay function is required, in which case Relay 4 is used as fault relay only.

**7. Fault Relay**

a) Relay 4 (Fault Relay, optional. To change follow the steps in 4 a) and b) & press ESC twice then select option 8, press backspace once (to erase the old setting) then either Y to enable or N to disable (N is default), followed by enter.
b) Enable in both transmitter and receiver menus (default = N for Off).
c) Relay is energised on power up & de-energised if no transmission is received for 2.5 Transmit Time – Power interval (see section 8 for how to change transmit time).
d) If enabled as the fault relay, only three relays (Relay 1–3) remain available for transmitter inputs.

ℹ ***If using the fault relay, the fault shall be triggered after 2.5 times the transmission timer. Therefore, for a fast fault relay response we recommend setting the transmission timer to 5-10 seconds.***

**8. Transmit time**

a) In addition to a transmission occurring on state change of any of the switches, the system also transmits the status of all switches at a periodic interval in seconds as set by the Transmit time – power option. To change this interval, follow steps 4 a) and b) then option 7, backspace 3 times followed by your desired setting in seconds then enter.

## Basic Operation

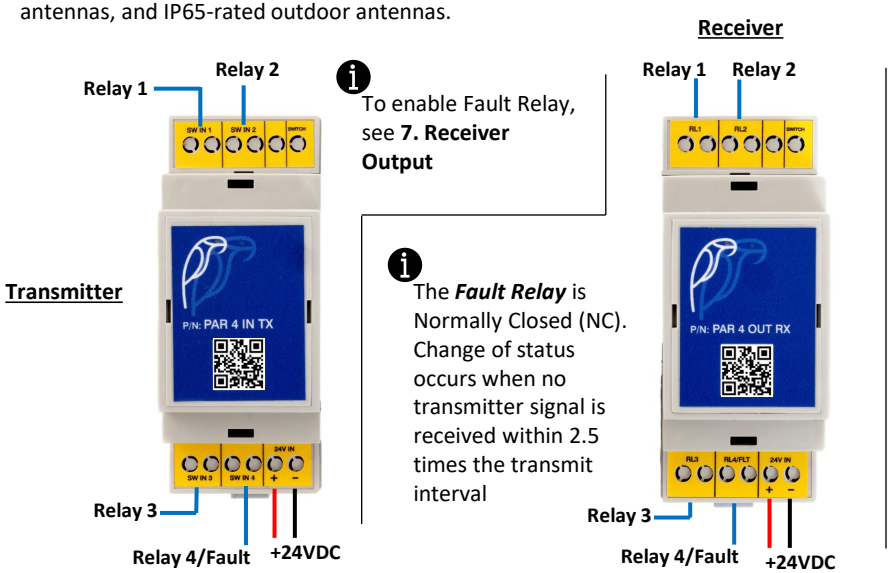
- When powered, the transmitter will transmit wirelessly any state changes of the connected switches / volt-free contacts.
- The receiver will mimic the state of the transmitters switches / relays inputs.

**Important Notes**

- This system is designed to work as a pair only i.e. one transmitter to a receiver. Please contact us to discuss multiple transmitters to a single receiver.

**Antenna**

Each device is supplied with a compact SMA antenna, designed primarily for use in open, unobstructed environments. When used inside metal or plastic enclosures, signal range and overall performance may be reduced. For applications requiring enhanced flexibility or outdoor use, a range of alternative antenna options are available, including extension cables, IP65-rated panel-mount antennas, and IP65-rated outdoor antennas.




**LED's**

- **White** Startup up test
- **Blue** Transmission in progress
- **Green** Successful Transmission
- **Red** Error no successful transmission