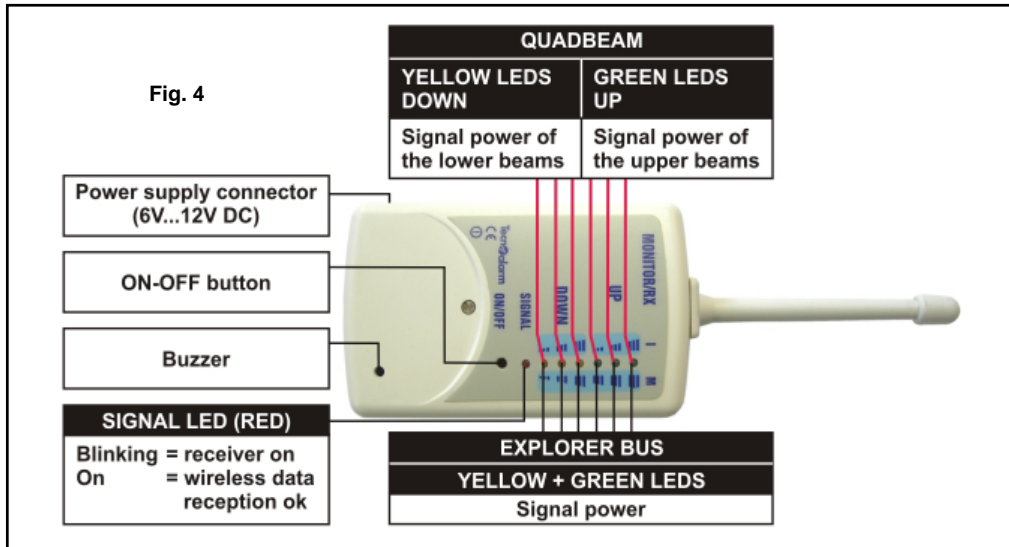


6. MONITOR 868



7. POWER SUPPLY

Permits the connection of the receiver MONITOR 868 to mains power (230V AC).



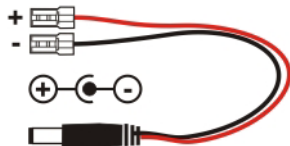
Technical data

Primary: 230V AC - 50Hz
 Secondary: 9V
 Max. current: 500mA
 Power:
 Connector:



8. CABLE

Permits the connection of the receiver MONITOR 868 to a 12V battery (to be used if mains power is not available).



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MONITOR 868



868MHz WIRELESS RECEIVER FOR THE ALIGNMENT OF BARRIERS

PRODUCT DESCRIPTION

Release: 0.1
 Update: March 2006
 Language: English

868MHz WIRELESS RECEIVER FOR THE ALIGNMENT OF BARRIERS

1. DESCRIPTION

MONITOR 868 is a 868MHz wireless receiver permitting the alignment of the barriers QUADBEAM and EXPLORER BUS.

It comes with a 9V DC 500mA power supply and cable for the connection of a 12V battery.

2. TURNING ON/OFF

Connect the receiver to mains power (through the power supply) or a battery (by means of the cable included).

- Press the ON-OFF button to turn the receiver on. The red SIGNAL LED is lit for approx. 2 seconds, then starts blinking (twice per second).
- After alignment press the ON-OFF button again to turn the receiver off. The red SIGNAL LED is switched off.

3. FUNCTIONING

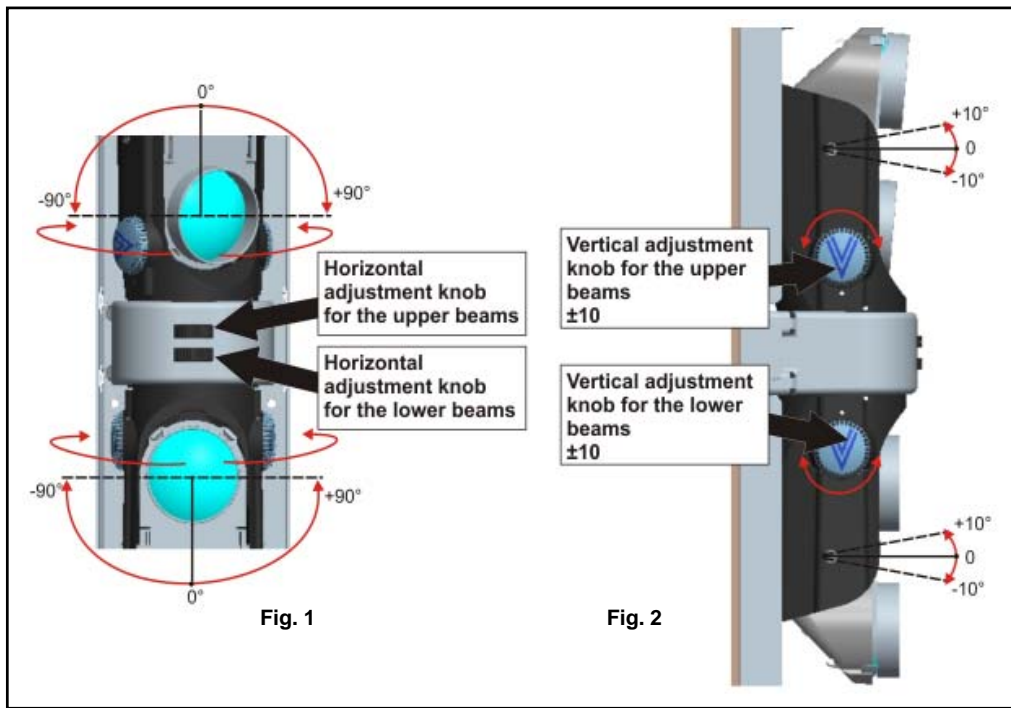
- If no signal is received, MONITOR 868 remains on for approx. 30 seconds, then it goes off in order to save battery charge.
- Upon reception of a signal, signal power is indicated by the series of LEDs. If the first LED from the top is lit, maximum signal power, i.e. best possible alignment, has been achieved (see page 2).

4. ALIGNMENT OF QUADBEAM

- Turn the receiver MONITOR 868 on by pressing the ON-OFF button.
- Press the TEST button on the receiver module of the barrier.
- Verify that the red SIGNAL LED is lit for approx. 2 seconds and then starts blinking (receiver is on and ready for alignment).
- Turn slowly the vertical (fig. 1) and the horizontal alignment knob (fig. 2) of both the upper and lower group of beams of the barrier.
- While turning the knobs check signal power with the help of the LEDs on the receiver. The three green LEDs (UP) indicate signal power for the upper beams whereas the three yellow LEDs (DOWN) indicate signal power for the lower beams. If at least one green LED is lit, the upper beams are aligned. If at least one yellow LED is lit, the lower beams are aligned. The LEDs are lit one by one according to the signal power.
- As soon as the first LED from the top of both groups of beams is lit, the barrier is aligned and ready to work.

Repeat the procedure for both sections of the barrier (RX/TX).





4.1 ALIGNMENT CHECK

- Cross the beams to verify that the barrier detects the interruption. If not, the buzzer will be activated (beep).
 - Press the TEST button again to quit the alignment procedure.
 - Insert the cover of the barrier.
- Alignment of the barrier has been completed.

4.2 SIGNAL POWER SIGNALING

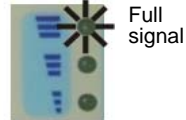
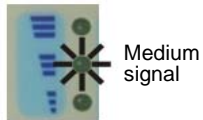
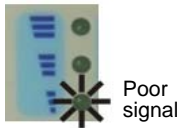
- 3 green LEDs of the UP section view signal power for the upper beams of the barrier.
- 3 yellow LEDs of the DOWN section view signal power for the lower beams of the barrier.

Barrier not aligned

- 3 LEDs blinking simultaneously = no signal
- All LEDs off = barrier receives insufficient signal

Barrier aligned

- 1st LED on = poor signal
- 2nd LED on = medium signal
- 3rd LED on = full signal

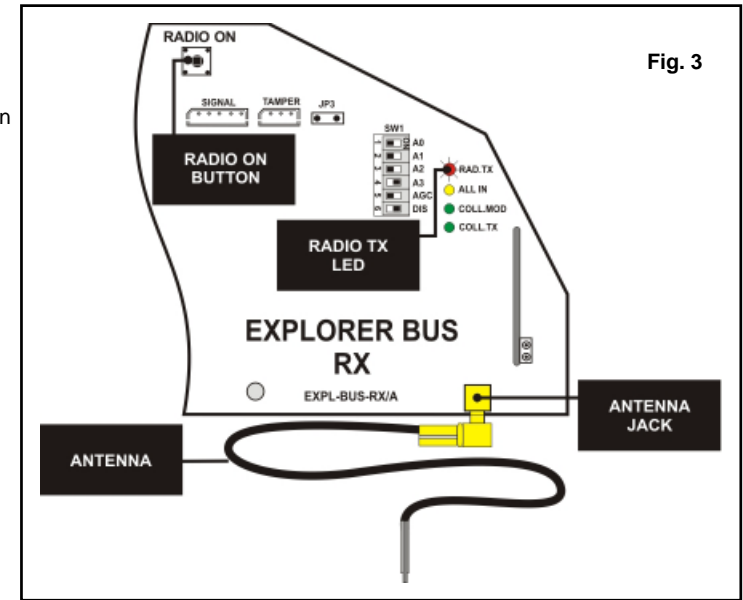


WARNING

Simultaneous blinking of the 3 LEDs signals missing alignment of the TX and RX section of the barrier.

5. ALIGNMENT OF EXPLORER BUS

- Turn the receiver MONITOR 868 on by pressing the ON-OFF button.
- Connect the antenna to the corresponding jack on the receiver module of the barrier making sure that it comes out of the casing in order to avoid any attenuation of the signal (fig. 3).
- Press the RADIO ON button on the receiver module of the barrier until the red RADIO TX LED is lit.
- Disable the automatic gain control (AGC).



5.1 SIGNAL POWER SIGNALING

- 6 LEDs (yellow and green) of both the DOWN and UP section of the receiver MONITOR 868 view signal power.

SIGNAL POWER SIGNALING		
LED off	Insufficient signal	(< 15%)
1 LED on	Insufficient signal	(> 15%)
2 LEDs on	Poor signal	(> 30%)
3 LEDs on	Reasonable signal	(> 45%)
4 LEDs on	Medium signal	(> 60%)
5 LEDs on	Good signal	(> 75%)
6 LEDs on	Full signal	(> 90%)