

Radio connection for safety devices supplied by batteries

Description

Bidirectional radio device for the connection of the safety devices in the automatic openings sector.
 The connection is carried out between a Master device (RCSP or TVPRP868C04x) for the motor control and a Slave device (TCSP) which is positioned on the door and is connected to the 8,2KOhm resistive safety edge or (optional) to an infra-red low-consumption safety edge. Every Master device can manage one Slave.
 In the same installation set there can be more systems which can operate without interference. The action ray is 10mt.
 The answer time during the motion is not higher than 100ms. The Slave peripheral devices are powered by battery and have a duration of 2 years with two batteries.

1-Slave device (TCSP).

This device is powered by battery and it is activated by the Master unit only when required. It sends to the Master unit the following information:
 -Survival signal: it is used to verify periodically if the unit is correctly connected via radio, the flat battery signal is also sent during the transmission.
 -Flat battery signal: it is sent at every transmission.
 -Motion control signal: when the Master unit receives an "autotest" request, it sends a signal to the Slave unit in order to activate it; when the signal has been sent, there will be an answer coming from the Slave unit in order to indicate that the safety device is functioning and so it is possible to proceed with the motion. During the motion, the Master unit waits for receiving some signals from the Slave unit indicating the correct functioning. If this doesn't happen, it sends an alarm signal.
 -Alarm signal: the Slave device sends an alarm signal if one of the inputs has been activated.
 -Inputs function: The Slave unit is supplied with two inputs for the safety devices connection (one input is 8,2KOhm resistive type and the other one can be selected between 8,2KOhm resistive type and optional infra-red type); the selection of this input is done through the Dip1.
 A working time (optional) can be selected through the Dips 2-3-4 for a maximum time of 90 sec.; when the time is finished, an alarm signal will be sent.
 Use optional low-consumption infra-red safety edges mod. TPS-S1102L.
 -Programming of the Slave unit into the Master unit: this operation is done by pushing the P1 push-button after the Master unit is "learning" mode, the successful "learning" is indicated by two flashings of the LED.
 It is possible to check the correct alignment by pushing the P1 push-button when the Slave device has been memorized: push and hold down the P1 push-button, if the safety edge is correctly aligned the LED will have a fixed light.

(optional) Dip-switch functions:

- DIP1 OFF: selection of the 8,2KOhm safety edge, input of terminal boards 3-6
- DIP1 ON: selection of (optional) infra-red safety edge (low consumption), input of terminal boards 4-5-6
- DIP2-3-4: selection of working time (see table)

Connections:

- 1-2 connection of 8,2KOhm resistive safety edge. Stop function. Alarm A1.
- 4-5-6 connection of (optional) infra-red safety edge (4=signal, 5=positive, 6=negative) A2
- 3-6 connection of 8,2KOhm resistive safety edge. Alarm A2.

Attention: if the input 1-2 and 3-4 is not used, it is necessary to be bridged with a 8,2KOhm resistance.

Technical specification of the Slave unit:

Frequency 2,4Ghz
 Power supply 3,6Vdc 2700mAh (lithium battery)
 Dimensions 115x65x40mm

Attention:

- Never let the batteries into the TCSP safety edge if it has not been memorized in the Master unit
- Never let the batteries into the TCSP safety edge if the Master unit has not been powered

FCC Compliance

"This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."

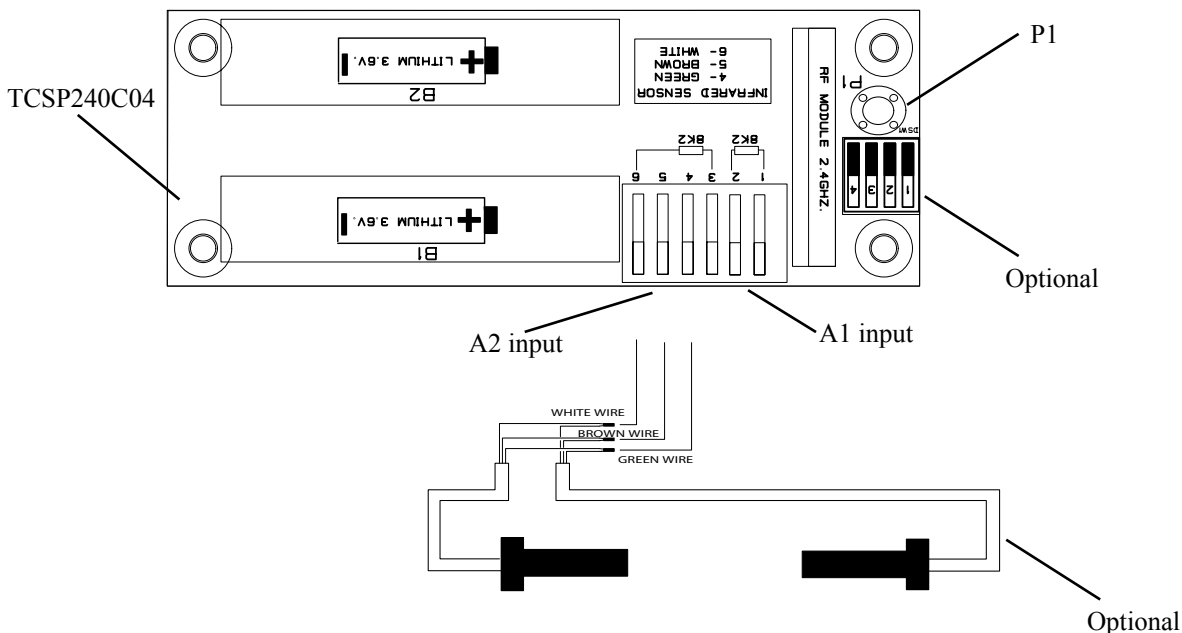
Change or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

DIP1: Safety edge selection
 OFF: 8.2K resistive edge
 ON: Infrared edge

DIP2-3-4: Working time

DIP2	DIP3	DIP4	W. T.
ON	ON	ON	10 sec
ON	ON	OFF	20 sec
ON	OFF	ON	30 sec
ON	OFF	OFF	40 sec
OFF	ON	ON	50 sec
OFF	ON	OFF	60 sec
OFF	OFF	ON	70 sec
OFF	OFF	OFF	80 sec

Optional



Code Number:	Series	Model number	Draft	Date
TCSP240C04ALB	TVLink RS868		T	19-11-2010