

for BOSCH Intruder Alarms



1. Overview



The T433BU is a Fully Supervised Universal Radio Transmitter compatible with Bosch™ intruder alarm panels (see list of compatible receivers).

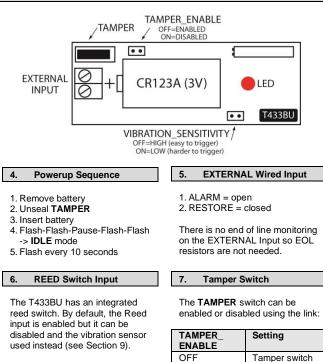
- Reed Switch Input
- External Wired Input
- Vibration Sensor Input Supervised Radio Link
- Long battery life (approx 3-5 years under normal use)
- Indicator LED
- Low-battery condition monitoring Intended for indoor use

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T433BU Hardware and Jumper Locations

| Specification | Description |
|---------------------------|---|
| Dimensions (mm) | 81(L) x 32(W) x 25(H) |
| Frequency | 433.42MHz |
| Modulation | ASK |
| Compatible Receivers | CSP: TR800-433B, TR800-433BR, TR800-433BM, TR800-433BU Bosch: RF3212E, B810 |
| Supervision Messages Sent | 55 Minutes |
| Weight | 50g |
| Operating temp | 0 deg C – 55 deg C |
| Battery | CR123A (3VDC) |

3 T433BU Hardware and Jumper Locations



To restore the REED input, bring the magnet in proximity to the T433BU. To activate the REED input, remove the magnet.

Low Battery Indicator 11.

If the battery needs replacing, the LED cadence changes from a single flash every 10 seconds to a double flash. Can only be reset by replacing battery.

(default)

ON

active

used

Tamper switch not

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This section is provided as a guide for convenience only. Please refer to specific panel installation documents and ensure T433BU is configured to suit the application. Assumes installer code is 1234.

Universal Radio Transmitter (Reed/External/Vibration)

8.1 Programming T433BU into Panel

| 1. | Enter PIR prog mode | : 12340 # | [installer code+0+#] |
|----|---------------------|------------|----------------------|
| 2 | Select zone | : [zone] # | |

- : [zone] # : press * for Auto mode Select zone 3. Now in Manual mode
 - press/release TAMPER -> displays ID Now in Auto mode # to save : 960 # (or '-')
- 4. 5 Double beep
- 6. Exit

8.2 Programming RF Zone Option

| 1. | Enter program mode | : 1234 # |
|----|--------------------|----------|
| | | |

- Addr program : 81 Enter location : 1868 #
- 3. [e.g., RF Zone 05] 4. Enter data : [d] *
- 0=all (default), 1=magnet or vibration, 2=external input, 4=input 3, 8=input 4 : 960 # (or '-') 5. Exit

RF Zone Option Address Locations: Z1: 1828 Z2:1838 Z3:1848 Z4:1858 Z5:1868 Z6:1878 Z7:1888 Z8:1898 Z9:1908 Z10:1918 Z11:1928 Z12:1938 Z13:1948 Z14:1958 Z15:1968 Z16:1978

8.3 Programming RF Supervision Period

- Enter program mode : 1234 # 1.
- 2. : 81 Addr program 393 #
- 3 Enter location 4.
- Enter data [d]
- 0=none, 2=2hrs, 3=4hrs, 4=12hrs, 5=24hrs, 6=48hrs, 7=72hrs 5 : 960 # (or '-') Fxit

If RF Supervision is used, recommended value is 24 hours (12 hours minimum).

9. Selecting REED or VIBRATION Sensor

9.1 Enabling the Reed or Vibration Sensor

The user can select either the REED or VIBRATION sensor as follows:

- Remove battery 1
- Remove VIBRATION_SENSITIVITY jumper 2.
- Seal TAMPER 3.
- 4. Insert battery
- 5. Flash-Flash-Flash -> SETUP mode
- Unseal TAMPER within 3 seconds 6. 7.
- **OPERATING_MODE** state is changed: If OPERATING_MODE was REED, it changes to VIBRATION. a) If OPERATING_MODE was VIBRATION, it changes to REED. b)
- a) If OPERATING_MODE: a) If OPERATING_MODE = VIBRATION -> ONE LONG FLASH 8.
- If OPERATING_MODE = REED -> TWO LONG FLASHES b)
- Then, Flash-Flash-Pause-Flash-Flash -> IDLE mode 9.

9.2 Vibration Sensor Restore

A restore message is sent 60 secs after the last vibration activation.

9.3 Setting Vibration Sensitivity

Vibration Sensitivity can be set with the VIBRATION_SENSITIVITY link.

| VIBRATION_SENSITIVITY | Setting | |
|-----------------------|---------------------------------------|--|
| OFF (default) | High sensitivity (easiest to trigger) | |
| ON | Low sensitivity (harder to trigger) | |

9.4 Mounting When Using Vibration

T433BU should be mounted horizontally when using vibration sensor to get maximum sensitivity.

10. LED Cadences

| | • ••• | | |
|---|--------------|-------------------------------|--------------------------|
| | State | LED Condition | Comments |
| 1 | IDLE | Single short flash every 10s. | Normal, idle state. |
| 2 | TRANSMIT | Fast flash. | Transmitting RF msg. |
| 3 | LOW BAT | Double short flash every 10s. | Replace battery. |
| 4 | SLEEP | Triple short flash every 10s. | Inputs ignored to save |
| | [Disabled] | | battery. Factory option. |
| 3 | WALK TEST | Single short flash every 2s. | All input changes sent. |
| | [Disabled] | | Sleep timer not used . |
| | | | Factory option. |