

U-PROX HW Installation manual

Features

- Power:
 - **External power supply, 12V:**
 - Current consumption max 150 mA @ 12V
 - Maximum voltage ripple 500 ma peak to peak
 - **Micro USB B standard power supply**
- Direct operation with U-Prox IP500 panels
 - ISM band (915.5-927.5 MHz) device with bi-directional communication
 - Guaranteed range of 20 m
 - U-Prox IC L connection interface – wireless computer network Wi-Fi
- One micro USB B port for network settings configuring and firmware upgrade
- Communication interface IEEE 802.11b/g/n (Open, WPA-PSK, WPA2-PSK)
- Adjusted with U-Prox IP software. Supports automatic configuration for one-range network.
- Overall dimensions of device enclosure – 120 x 40 x 35 mm
- Temperature range: 0 - +55 °C at 80.% relative humidity.
- Maximum relative humidity 80% without condensation

Repeater

The look of the repeater is shown in Fig. 1

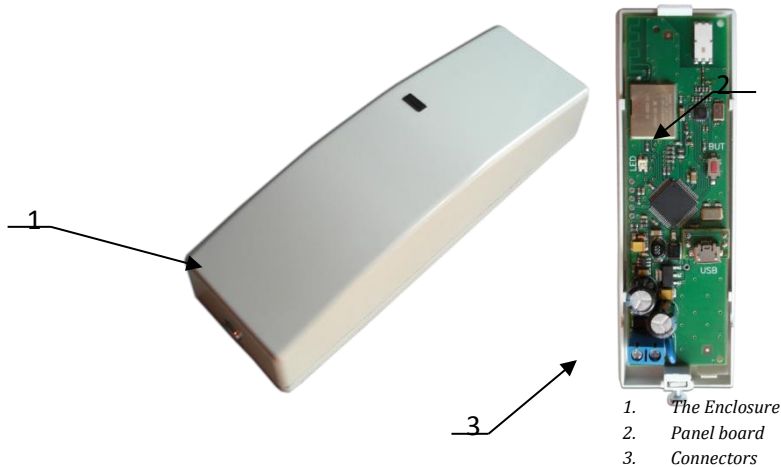


Fig. 1. U-Prox HW repeater

Location of connectors on repeater board and their function is shown in Fig. 2

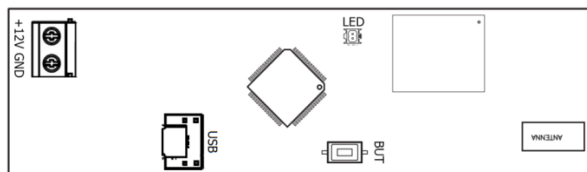


Figure 2. U-Prox HW board

Assignment of the repeater contacts and indication

Contact	Name	Purpose
+12V	+12V	External 12V power supply connection
GND	GND	
USB Connector		
Micro USB B	USB Connector	For network settings configuration and firmware upgrade
Button		
BUT	BUT	Service button

Light emitting diode

LED – bi-color light emitting diode

- No connection to the Wi-Fi access point - **Yellow flashes**
- Wi-Fi module malfunction – **Yellow lights steadily**
- Normal mode
 - No connection to the U-Prox IC L – red flashes 2 times per second
 - Connected to the U-Prox IC L – green flashes once per second
- Firmware upgrade - red flashes frequently

How to work with the device

U-Prox HW repeater shipped in the plastic enclosure without the power supply. Dimensions marked on the Fig. 3.

Connection procedure

1. Perform initial network setup of repeater (that specifies settings of network parameters) with utility "Configurator" via USB port before installation, if it is impossible to adjust them automatically
2. Prepare the place for installation mark and drill mounting holes (see **Mount recommendations**)
3. Perform power wiring
4. Remove the repeater board from the enclosure
5. Install and fix the repeater enclosure back
6. Install the board into the enclosure
7. Connect the power wiring
8. Install and fix the enclosure cover with screw
9. Connect the repeater in the U-Prox IP software (according to the software manual)
10. Download the repeater
11. The repeater is ready for operation

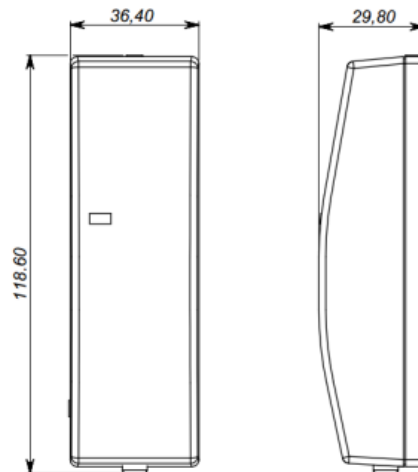


Fig. 8. Dimensions

Mount recommendations

Place the repeater in the place, convenient for service.

To mount the repeater on the wall (see Fig 4.) perform actions:

- Open the enclosure cover, remove the board and mark fixing holes using the enclosure bottom as template
- Pull the power wiring through the opening in the enclosure
- Fix the enclosure bottom
- Connect the power wiring

Fig. 4. Fixing holes marking

