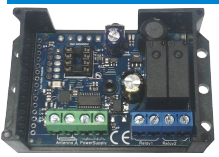
UniRec2: 2 channels universal receiver

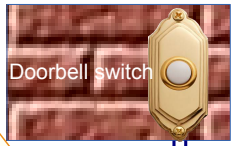


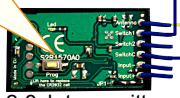
Main features:

- **MultiFrequency**: 433.42, 433.92, 434.15, 434.42, 868.3, 868.5, 868.8 MHz and other frequencies between 288 and 418MHz (only outside UE).
- Supports both **AM and FM** remote controls, transmitting **fixed and rolling code**.
- **2 relay outpus with 250Vac 5A switch capability**, configurable as **hold-to-run, bistable, timer from 0.5s to 1 hour**, or with some special/advanced functions.
- Supports **up to 60 different remote controls** stored in the integrated memory; **up to 1000 different remote controls** when the optional memory is installed.
- You can program **different types of remote control** (with the same frequency and modulation) **in the same receiver**;
- 1 or more master remote controls can be used to enable **programming of new remote controls without the need to open the box**.
- **Low power dissipation and consumption**, due to the high efficient switching-mode power supply; **works from 6 to 36Vdc, or from 7 to 27Vac**.

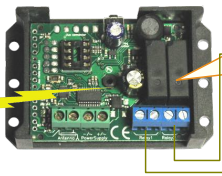
Wireless doorbell using the 2-ch universal receiver and one stationary transmitter

The transmitter is internally supplied by a 3V cell, so it can be easily connected to the doorbell switch without the need for external supply.





2-3ch transmitter

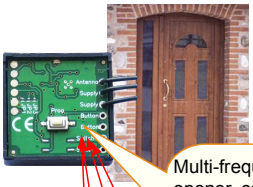


External light

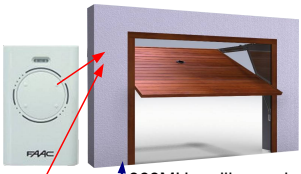
Door bell

Both outputs can be configured to be activated by the same transmitter (connected to the doorbell switch): one output activates the door chime, and the other output activates the light for 1 minute or more.

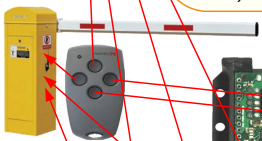
Controlling every automations, rolling code and/or working in different frequencies, using a single existing remote control.



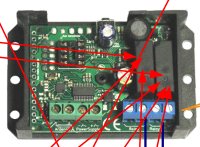
Multi-frequency door opener connected to the electric strike plate: **the simplest way to open a door using almost any remote control in the market, AM and FM!**



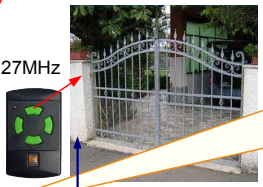
868MHz rolling code



868MHz fixed code



27MHz

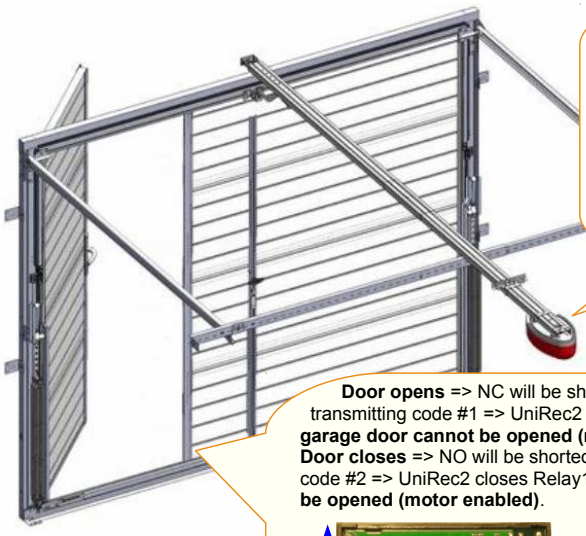


Universal receiver can be used to control automations that use rolling codes or other frequencies.
Supports **AM and FM**,
fixed and rolling codes!

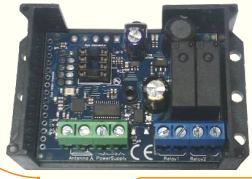
Multi-frequency duplicator can copy fixed code remote controls transmitting at 433.92 and 868.3 MHz. Version for outside UE supports 286-418MHz range too.

You can control your system using almost any existing remote control. If you need to extend the number of remotes in the system, you can choose our nice and cheap duplicators!

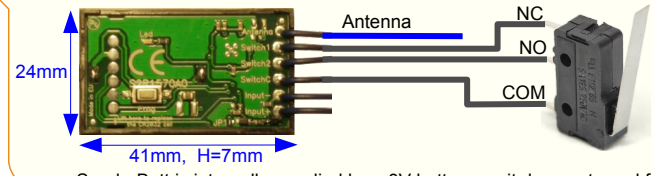
Wireless connection between safety edge and motor operator board



Relay1 configured in bistable ON/OFF, and connected to the motor operator safety input.



Door opens => NC will be shorted to COM so SenderBatt starts transmitting code #1 => UniRec2 opens Relay1 output **=> safety OFF => garage door cannot be opened (motor disabled)**.
Door closes => NO will be shorted to COM => SenderBatt starts transmitting code #2 => UniRec2 closes Relay1 output **=> Safety ON => garage door can be opened (motor enabled)**.



SenderBatt is internally supplied by a 3V battery, so it does not need for external power supply. It's very compact, so it fits anywhere.

Every time the microswitch change status, SenderBatt transmits a code used to enable or disable the output on the UniRec2 receiver. Please note that this is not a 100% safety system, because it's not guarantee that UniRec2 receive every command from SenderBatt (there is no feedback/acknowledge).
The 2nd relay output can be used with another SenderBatt to control another safety edge, or can be used to send open/close command to the motor operator board.
Configure output 1 on UniRec2 as Bistable ON/OFF mode:
press *Prog* button 1 time (channel 1), then press *Prog* 6 times (output mode), then press *Prog* 3 times (Bistable ON/OFF mode)
Program SenderBatt code#2 on Relay 1, ON mode (when door is closed, safety is ON and motor is enabled):
press *Prog* button 1 time (select channel 1), then press *Prog* 2 times (enter programming), close microswitch (*Switch2* shorted to *SwitchC*): this way SenderBatt starts transmitting code#2 and UniRec2 will learn this code to activate relay output 1.
Program SenderBatt code#1 on Relay 1, OFF mode (when door is open, safety is OFF and motor is disabled):
press *Prog* button 3 times (select channel 1, OFF mode), then press *Prog* 2 times (enter programming), open microswitch (*Switch1* shorted to *SwitchC*): this way SenderBatt starts transmitting code#1 and UniRec2 will learn this code to disactivate relay output 1.

Forward/Reverse 230Vac motor driving using UniRec2 multifrequency universal receiver

The receiver can be configured to enable only one relay output at a time; in this way **the receiver can be used to drive an async motor**: one button on the remote control will enable motor in **forward direction**, and another button will enable motor in **reverse direction**.

Two 275Vac varistors should be connected on the outputs, to preserve relay contacts from surges/sparks.

UniRec2 should be set to have both outputs configured in *only one output active* (parameter 7, value 4).