

Installation and operating manual Roller blind receiver for flush mounting

Ref. 10020055



1. General

1.1 Use

The roller blind receiver O₂LINE 10020055 is used to receive radio signals originating from O₂LINE switch transmitters. The outputs ▲ (raise) and ▼ (lower) are used to control a roller blind, a blind or a patio blind equipped with a limit switch (230V/50Hz motor).

Before any use, the transmitters must be allocated to a receiver (maximum 32 transmitters). Each sensor or transmitter can control an unlimited number of receivers.

Note: Read the operating manual carefully before initial use.

1.2 Guarantee terms

This operating manual is an integral part of the device and our guarantee terms. It must always be delivered to the user. We reserve the right to modify the technical design of these devices without warning. **TRIO₂SYs products are manufactured and their quality checked by making use of the latest technologies and taking into account the applicable national and international directives.** If nevertheless a fault arises, **TRIO₂SYs** undertakes to remedy the default as follows, without prejudicing the rights of the end customer that arise from the sales contract with his reseller:

If the event of exercising of a legitimate and regular right, **TRIO₂SYs**, may at its sole discretion, rectify the device fault or supply a fault-free device. Any claim beyond this and all claims for consequential damages are excluded. A legitimate fault exists if the device cannot be used at the time of delivery to the end customer because of a design or manufacturing defect or if its practical use is severely limited. The guarantee is void in cases of natural wear and tear, incorrect use, incorrect connection, where the device has been repaired or external influence. The period of guarantee is 24 months (from the date of invoicing). French law applies to the regulation of guarantee rights.

1.3 Recycling of the device

To recycle the device, conform to the legislation and standards in force in the country of use.

2. Safety



WARNING! Risk of electric shocks! (See UTE C18-150) The device contains live internal components. Risk of wounds or injuries if contact occurs! All work on the mains supply network and the device must only be carried out by authorised professional technicians.

- Before carrying out any work, switch-off and isolate the device.
- Secure the device to prevent it being switched back on.
- Check the device is in a zero-volts state.
- Carefully reclose the casing before reconnecting to mains power.

Observe the following points:

- The laws, standards and directives in force.
- Best practice at the time of installation
- The device operating manual.
- An operating manual can only give general instructions. They must be interpreted in the context of a specific installation.

The device is intended solely for use conforming to its purpose. Any repairs or modifications by the user are forbidden! Do not use with other devices the operation of which could endanger people, animals or property.

3. Technical characteristics

General characteristics	
Transmission frequency	868.3 MHz
Power supply	230V~ / 50 Hz
Terminal capacity	2.5 ² max rigid
Power supply line fusing	Circuit breaker of 10A max.
Types of load	Inductive 600 VA
Ambient temperature	from -20°C to +50°C
Storage temperature	from -25°C to +70°C
Relative humidity	75% max

Dimensions for flush mounting	length 45 mm x width 55 mm x depth 33 mm
Degree of protection	IP 20
Conformity	CE
Range in buildings	
Masonry	20m, through 3 walls at most
Reinforced concrete	10m, through 1 wall/ceiling at most
Plasterboard / wood	30m, through 5 walls at most

Note: The signal strength between the transmitter and the receiver decreases as the distance increases. Where there is a line of sight connection, the range is approximately 30 m in corridors and 100 m in large workshops or halls. The range can be increased with an O₂LINE repeater.

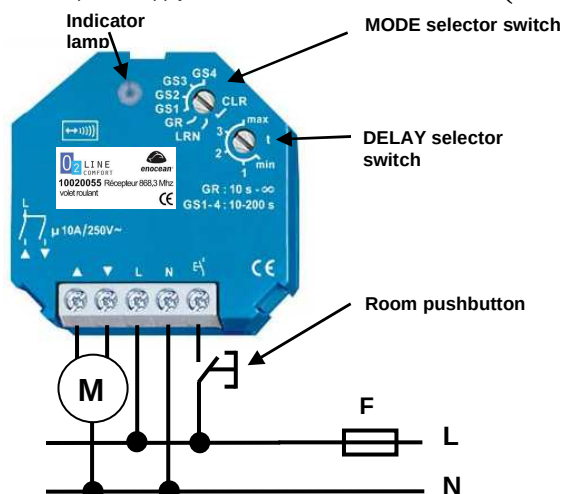
4. Installation and initial use

4.1 Safety instructions

The installation and initial use must only be performed by authorised qualified electricians. The electrical installation must be placed off-load before connecting it to the mains (230V~/50Hz). Conform to the legislation and standards in force in the country of use.

4.2 Installation

- NEVER install the receiver in a metal casing or in the immediate vicinity of large metallic objects.
- Installation on the ground or close to the ground is not recommended
- For a wall, the installation must use a pattress box of at least 40 mm depth.
- Place the receiver in its box and screw in.
- Protect the power supply line with an automatic circuit breaker (**F=10A max.**).



4.3 Initial use

- Connect power to the electrical installation after it has been installed.
- Program the transmitter on the receiver (see point 5).

5. Programming

For programming the receiver must be connected to the mains. The programming is conserved during a power failure.

A small insulated screwdriver is used to set the **MODE** and **DELAY** selector switches. Each time the switch passes through one of the positions indicated by the printed labels, the indicator lamp flashes briefly which aids in finding the correct marking.

5.1 Programming mode

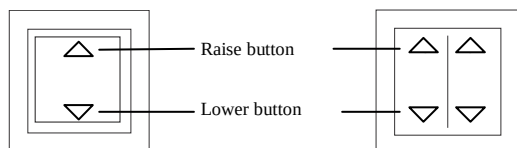


N.B.! A transmitter must not be further away than 5 m from the receiver in learn mode. The receiver has a limited range! Only one position per transmitter may be associated or cleared at a time! (necessity to exit **LRN** mode between each transmitter position).

5.1.1 Associating a transmitter

- Turn the **MODE** selector switch to position **LRN**, the indicator lamp flashes evenly
- Turn the **DELAY** selector switch to the position corresponding to the desired function for the selected transmitter (see section 5.1.2)
- Press on the desired transmitter button, the indicator lamp illuminates continuously for 1 s then goes out
- Turn the **MODE** selector switch to the desired operating mode (see 5.3)

5.1.2 Transmitter function:



The **DELAY** selector switch is used during the teach-in to define the transmitter function:

- position 1: centralised control, lower only
- position 2: raise and lower control
- position 3: centralised control, raise only

The centralised functions only allow raising and lowering, whatever the associated transmitter button.

The local pushbutton, if installed, has the same function as an associated transmitter in position 2.

5.2 Clearing of one or more of the programmed transmitters

5.2.1 Clearing of one transmitter

- Turn the **MODE** selector switch to position **CLR**, the indicator lamp flashes jerkily
- Press the desired button of the transmitter, the indicator lamp illuminates constantly for 0.5 s then goes out
- Turn the **MODE** selector switch to the desired operating mode (see 5.3)

5.2.2 Clearing of all transmitters

- Turn the **MODE** selector switch to position **CLR**, the indicator lamp flashes jerkily
- Turn the **DELAY** selector switch three times in a row from the **max** position (right stop) to the **min** position (left stop) within 10 seconds of entering **CLR** mode.
- Turn the **MODE** selector switch to the desired operating mode (see 5.3)

5.3 Operating mode

The operating **MODE** is determined by the position of the mode selector switch. The **DELAY** selector switch determines the maximum operating time of the roller shutter, from 10 seconds to 200 seconds.

Note: positions GS2, GS3 and GS4 are not currently allocated.

5.3.1 Manual mode, GR

Turn the **MODE** selector switch to position **GR**, the indicator lamp flashes briefly. The **DELAY** selector switch set to position **max** (right stop) prevents control of the motor operating time. The 200s time is just slightly before the **max** position and the 10s time is obtained at the **min** position (left stop).

As on as either the *raise* or *lower* button is pressed, the blind is raised or lowered accordingly. It stops as soon as pressing of the button is stopped or the motor operating time runs out.

Upon pressing again, the direction reverses: the *raise* button becomes *lower* and vice-versa.

Double pressing causes continuous operation in the same direction as the last movement performed. Stopping takes place automatically as soon as the motor operating time runs out. If it is desired to stop the blind before it reaches the end of its course, quick pressing of either the *raise* or *lower* button is all that is required.

For transmitters programmed under centralised operation, movement continues for as long as the button is being pressed. For continuous operation, double press. In this case stopping is achieved by renewed pressing of either the *raise* or *lower* button. If not, stopping is automatic when the motor running time elapses.

5.3.2 Automatic mode, GS1

Turn the **MODE** selector switch to position **GS1**, the indicator lamp flashes briefly.

Turning the **DELAY** selector switch to **max** (right stop) sets a motor operation time of 200s while a time period of 10s is obtained at position **min** (left stop).

A brief press of either the *raise* or *lower*, button raises or lowers the blind as long as the motor operating time allows this. If it is desired to stop the blind before it reaches the end of its course, quick pressing of either the *raise* or *lower* button is all that is required.

Upon pressing again, if the blind is stationary, the direction reverses: the *raise* button becomes *lower* and vice-versa. If not, the blind that is moving stops.

For transmitters programmed under centralised operation, a brief press suffices to start the automatic opening or closing of the blind. Stopping is achieved by renewed pressing of either the *raise* or *lower* button. If not, stopping is automatic when the motor running time elapses.

6. Troubleshooting

6.1 New or existing installation

- Check the circuit breaker, the electrical supply and the load connected to the receiver associated with this sensor (qualified electricians).
- Check the connected load and the connecting cables (qualified electricians).
- If the receiver functions at a shorter distance relative to the sensor, it is subject to interference or used outside the transmission range.
- Search the system environment for changes that could cause the interference (for example movement of metallic cabinets, furniture or partitions).
- Use the sensor or receiver in a more suitable location.
- Clear the receiver and perform a new learn process.

6.2 Automatic activation of the receiver

- The cause may be the activation of a sensor external to the system which has by chance been programmed on the receiver.
- Clear the receiver and perform a new learn process.

6.3 Limitation of the range of the radio signals

- Transmitter/receiver used close to metallic objects or close to materials containing metallic elements. Observe a distance of at least 10 cm.
- Humidity in the materials.
- Devices emitting high frequency signals such as audio and video systems, computers, electronic ballasts or fluorescent tubes. Observe a distance of at least 0.5 m.

6.4 Contacts

E-mail:..... contact@trio2sys.fr

7. Declaration of conformity

This product can be marketed and distributed in the countries of the European Union, Switzerland, Iceland and Norway.

TRIO₂SYs hereby declares that the receiver **10020055** conforms to the base requirements and other applicable requirements of the directive 1999/5/CE referred to as R&TTE.