

IM
PUL
FOR
MOTION



Technical specifications

- ✓ Power supply: from 12 to 24 Vdc
- ✓ Contact capacity: 5A
- ✓ Dimensions: 45x38x25 mm
- ✓ Weight: 40 gr
- ✓ Working temperature: from -20 to +55°C
- ✓ IP protection: IP20
- ✓ Working time: from 1 to 240 min in «automatic shutdown mode»
- ✓ Working frequency: 433.42 Mhz
- ✓ Storable transmitters: 15
- ✓ Range (estimates): 100 m outdoor, 20 m indoor

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Notes on radio systems

Do not use radio systems in places with strong interference (for example, near police stations, airports, banks, hospitals). It is in any case advisable to carry out a technical inspection prior to installing any radio system in order to identify possible sources of interference.



Radio systems can be used where any disturbances or malfunction of the transmitter or receiver do not constitute a risk factor, or if such factor is eliminated using appropriate safety systems.

The presence of radio devices working at the same transmission frequency (433.42 MHz) may interfere with the radio receiver and reduce the range of the system, limiting functionality.

Disposal

At the end of the product life cycle, dispose of the device in compliance with local regulations. This product could contain substances that are harmful to human health and the environment: do not dispose of the product in domestic waste.



Dear Customer,

Thank you for purchasing a MASTER S.p.A. product. This guide contains all the information you will need concerning the use of this product. Read the instructions carefully and keep them for further consultation.

The MIR WHITE module is designed specifically to control a LED bar operating at 12/24 Vdc.

All other use beyond the field defined by MASTER S.p.A. is forbidden. This, as well as the breach of the instructions given in this guide, shall release MASTER S.p.A. from any liability and shall annul the product warranty.



This product is compatible with Arco and equivalent transmitters.

Before starting the programming procedure, read the instruction manual of the transmitter.

In the following description the transmitter is represented in a generic way.

01. WARNINGS!

Important safety instructions!

01.1 GENERAL SAFETY INSTRUCTIONS

- ✓ Keep these instructions for future maintenance work and disposal of the product.
- ✓ All the product installation, connection, programming and maintenance operations must be carried out only by a qualified and skilled technician, who must comply with laws, provisions, local regulations and the instructions given in this manual.
- ✓ The wiring must comply with current IEC standards.
- ✓ Certain applications require hold-to-run operation and can exclude the use of radio controls or require particular safety devices.

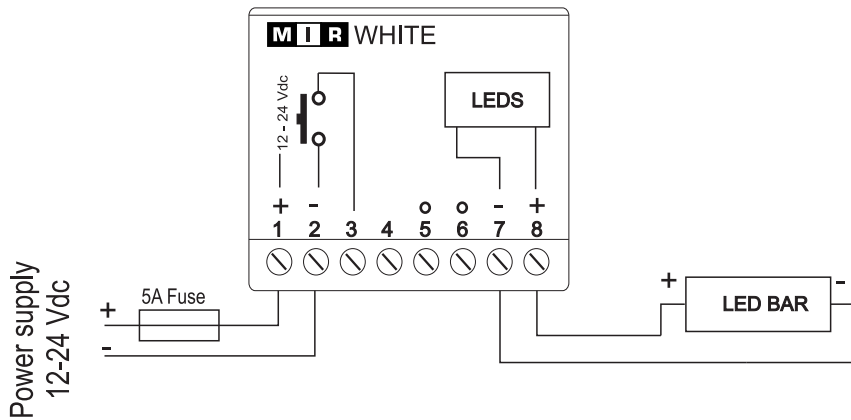
01.2 WARNINGS FOR THE INSTALLATION

- ✓ Check that the package is intact and has not been damaged in transit.
- ✓ The product is designed to be inserted inside of junction boxes. The module does not provide any protection against water and only essential protection for contact with solids.
- ✓ It is forbidden to install the module in areas not adequately protected, and near sources of heat.
- ✓ Use momentary (hold-to-run) control buttons. Do NOT use stay-put switches.
- ✓ Install the product carefully, using suitable tools.
- ✓ If there are several radio appliances in the same system, they must not be less than 1.5 m apart.
- ✓ Do not install the product near metal surfaces.
- ✓ Do not modify or replace parts without the manufacturer's permission. Do not pierce or tamper the box.
- ✓ The antenna cable carries line voltage. Do not cut the antenna cable as this would be dangerous. If the antenna cable is damaged, replace the product.

02. ELECTRICAL CONNECTION



- ✓ Make the connections with the power switched off.
- ✓ A circuit breaker or residual current device must be inserted in the power line. An isolating device with overvoltage category III, namely distance between contacts of at least 3.5 mm, must be inserted in the power line.
- ✓ The product has no protection against overloads or short circuits. Install a protective device in the power line that is appropriate for the load, such as a fuse of max. 5A.
- ✓ Use momentary (hold-to-run) control buttons. Do NOT use stay-put switches. The control buttons are connected to the line voltage and must therefore be properly isolated and protected.
- ✓ It is forbidden to connect more than one LED bar.



Power supply

The module can be powered by a minimum voltage of 12 Vdc to 24 Vdc maximum. The supply voltage must be applied to terminals 1 and 2.

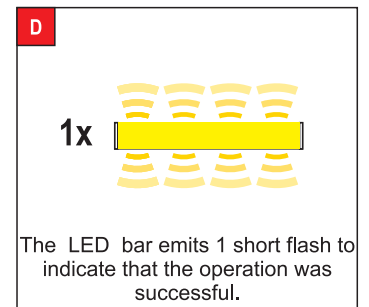
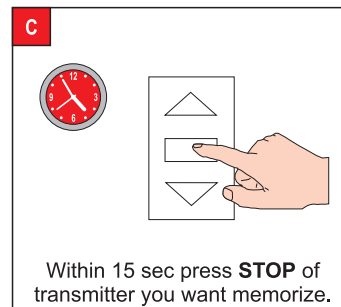
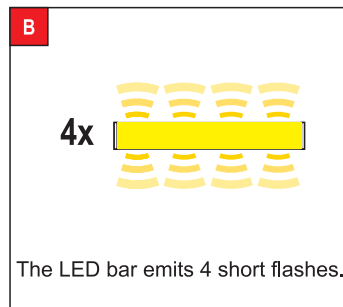
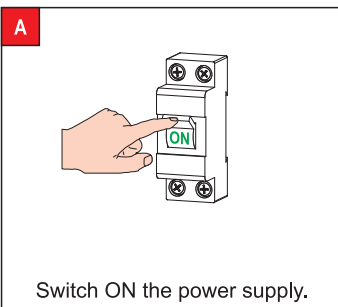
Connecting the LED bar

The LED bar must be connected to terminals 7 (positive) and 8 (negative). For each module must be connected a maximum of 5A.

Connecting the command button (optional)

The button must be connected to terminals 2 and 3. You must use momentary (hold-to-run) button, do not use button with maintained position. More command buttons can be connected via a parallel connection.

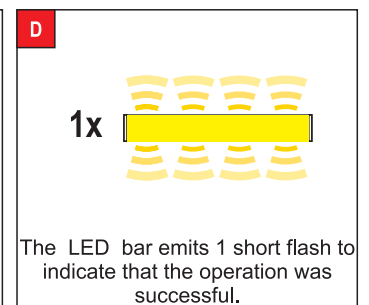
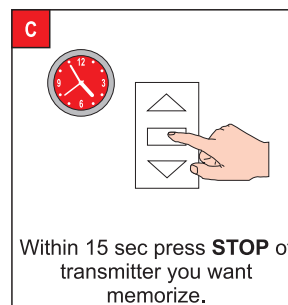
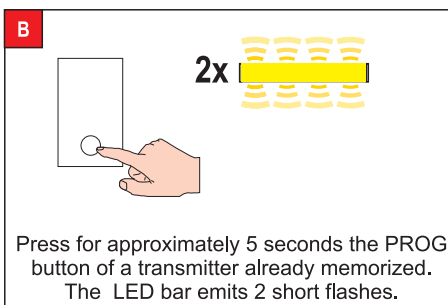
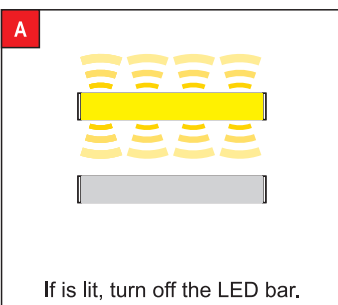
03. FIRST INSTALLATION



NOTE:

- ✓ In the event that the installation is not successful, you can restore your system to factory settings (see section "RESET").

04. MEMORIZATION/DELETION OF A TRANSMITTER



NOTES:

- ✓ The module can store up to 15 radio codes. The "out of memory" condition is indicated by 2 flashes.
- ✓ If the module has stored a single hand-held transmitter, it can't be deleted (the non-cancellation is indicated by 2 flashes).

05. COMMANDS FROM COMMAND BUTTONS

If you connected the command button (optional), depending on pressing time of the button varies the response of LED MIR.

Pressure less than 0.5 sec: if the LED bar is off, it switches on.
if the LED bar is on, it switches off.

Pressure more than 0.5 sec: if the LED bar is off, it switches on.
if the LED bar is on, varies the luminosity.

06. COMMAND FROM TRANSMITTER

It is possible to control the LED MIR module via ARCO or equivalent transmitters. The commands associated with the transmitter keys are:

UP: switch on the LED bar.

DOWN / STOP: switch off the LED bar.

SX⁽¹⁾: reduces the luminosity. **DX⁽¹⁾:** increases the luminosity.

FOR ME⁽²⁾: "automatic shutdown mode": if the LED bar is off, it switches on. After the working time (see section 10. WORKING TIME), if the LED bar is still lit is automatically turned off.

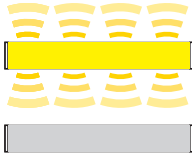




STOP + FOR ME⁽³⁾: activates the "presence simulator" (for details see section 11. PRESENCE SIMULATOR).

NOTES:

- ✓ (1) in the case where the transmitter hasn't the button RIGHT/LEFT ORIENTATION see ORIENTATION function in the user manual of transmitter.
- ✓ (2) in the case where the transmitter hasn't the button FOR ME see INTERMEDIATE POSITION function (recall) in the user manual of transmitter.
- ✓ (3) in the case where the transmitter hasn't the button FOR ME see INTERMEDIATE POSITION function (storing) in the user manual of transmitter.

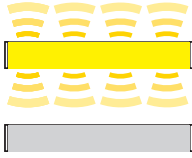






07. MEMORY FUNCTION

It is possible to decide if, when switching on, the LED bar must reach maximum luminosity (functioning without memory) or reach the luminosity set in the previous use (functioning with memory). The factory sets the module to work in "without memory mode". To change this you must:

<p>A</p>  <p>If is lit, turn off the LED bar.</p>	<p>B</p> <p>The procedures varies according to the used transmitter. See user manual of transmitter at section Receiver menù - FUNCTION 21</p>	<p>C</p> <p>1x  Active</p> <p>2x  Not active</p> <p>The LED bar signals the current setting.</p>	<p>D</p> <p>Modify the setting as indicated in the manual of the transmitter.</p>	<p>E</p> <p>1x  Active</p> <p>2x  Not active</p> <p>The LED bar signals the new setting.</p>
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08. WORKING TIME

If you turn on the LED bar by pressing FOR ME on transmitter, after the working time set the LED bar will turn off automatically. The working time is adjustable from 1 minute to 240 minutes. The factory sets the working time to 2 minutes. To modify this parameter:

<p>A</p>  <p>If is lit, turn off the LED bar.</p>	<p>B</p> <p>The procedures varies according to the used transmitter. See user manual of transmitter at section Receiver menù - FUNCTION 07</p>	<p>C Example:</p> <p>5x  } 5 Minutes</p> <p>7x  pause } 72 Minutes</p> <p>2x  }</p> <p>The LED bar signals the current setting.</p>	<p>D</p> <p>Modify the setting as indicated in the manual of the transmitter.</p>	<p>E Example:</p> <p>1x  pause } 120 Minutes</p> <p>2x  pause }</p> <p>1x  long }</p> <p>The LED bar signals the new setting.</p>
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NOTES:

- ✓ If you try to set a working time of less than 1 min or greater than 240 min, the value is rejected and the LED bar emits two short flashes.
- ✓ If you want to cancel the procedure, press the MENU button on the transmitter.

09. PRESENCE SIMULATOR

This function can be useful when you intend to simulate the presence of someone inside a building. Once activated, this function turns on the LED bar for a time varying from 1 to 3 minutes, for 3 times; each activation will occur at a distance from 1 to 3 hours from each other. At the end of the three activations the function is automatically deactivated.

To **activate** the function:

- pressing and holding **STOP**, press also **FOR ME**. The LED bar makes a brief flash.

To **deactivate** the function:

- press any button on the transmitter, or press the button connected to terminals 2 and 3 of the device. If you don't press any buttons the device disables the function automatically at the end of the three activations.

10. RESET

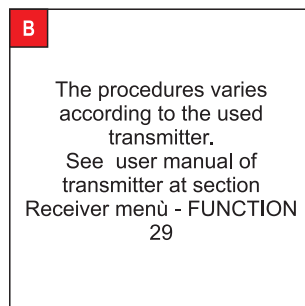
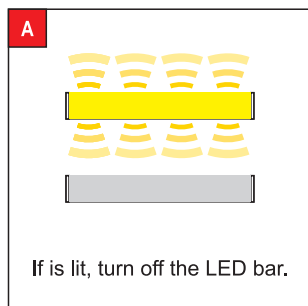


This procedure restores the receiver to the default conditions (factory settings). This procedure must only be carried out by qualified technical staff. Having carried out the reset procedure, the qualified technician must promptly carry out all the installation operations described at section 03. FIRST INSTALLATION

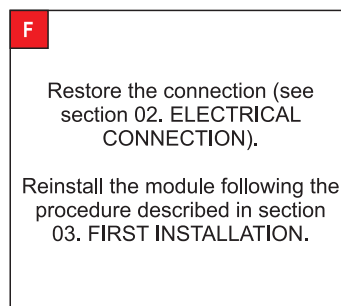
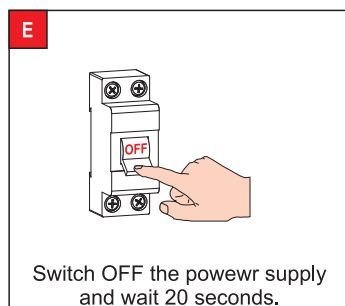
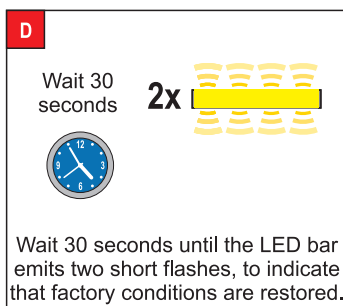
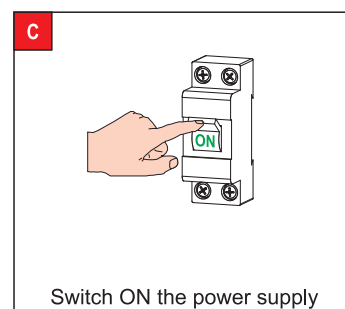
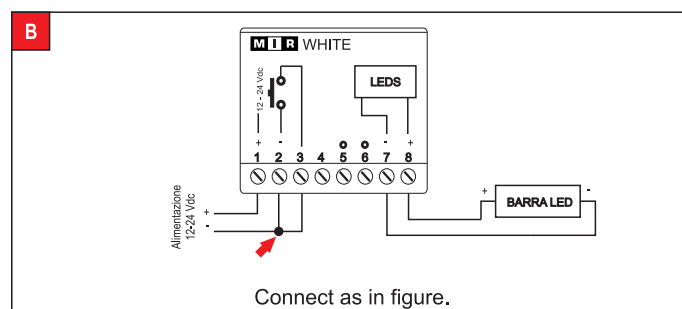
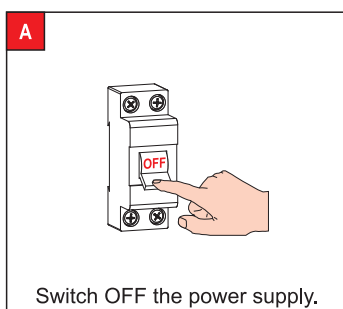
10.1 RESET BY A MEMORIZED TRANSMITTER

Before making the "reset" by transmitter:

- ✓ Select the radio channel on the transmitter that controls the device you want to reset.
- ✓ **Make sure that this channel controls only the device you want to reset.**



10.1 RESET BY COMMAND BUTTONS



11. FAQ

- 1. The module has just been installed, but when I switch ON the power supply the LED bar will not turn on.**
 - Check the electrical connections.
 - Verify that device receives the correct voltage.
 - Make a reset using command button (see section 10. RESET).
- 2. The module is in "programming transmitters mode" but I can't memorize a new transmitter.**
 - Verify the functionality of the new transmitter.
 - Within 15 seconds after entering in "programming transmitters mode" be sure to briefly press STOP of transmitter to be memorized.
 - The device can memorize up to 15 transmitters.
- 3. The LED bar lights but after a while it turns off by itself.**
 - The LED bar has been turned on using the FOR ME button.
- 4. The LED bar turns ON by itself.**
 - You have activated the "presence simulator" (see section 09).
 - Check the correct operation of the transmitter.
 - If installed, check the connections and button functionality applied to terminals 2 and 3.

All products and technical specifications given in this document are subject to variation without notice.

Unless previously and specifically authorised by the manufacturer, the device must be used exclusively with transmitters produced by the same manufacturer.

The manufacturer shall not be liable for damage resulting from improper, incorrect or unreasonable use.

MASTER S.p.A. declares that the device complies with the fundamental requirements and other provisions of Directive 1999/5/EC. The declaration of conformity can be downloaded from the website <http://www.mastermotion.eu/en-US/download> in the Product Conformity section.

