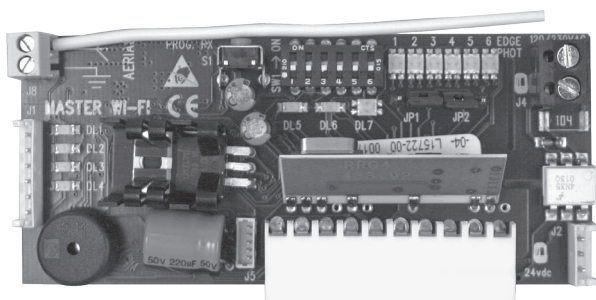


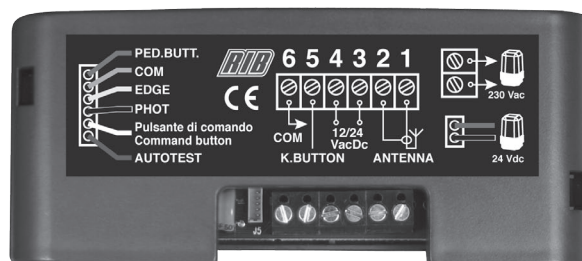
MASTER Wi-Fi

Brevettato - Patented pending BS 2009 A 000019

RECEIVER CARD TO MANAGE WIRELESS SYSTEM

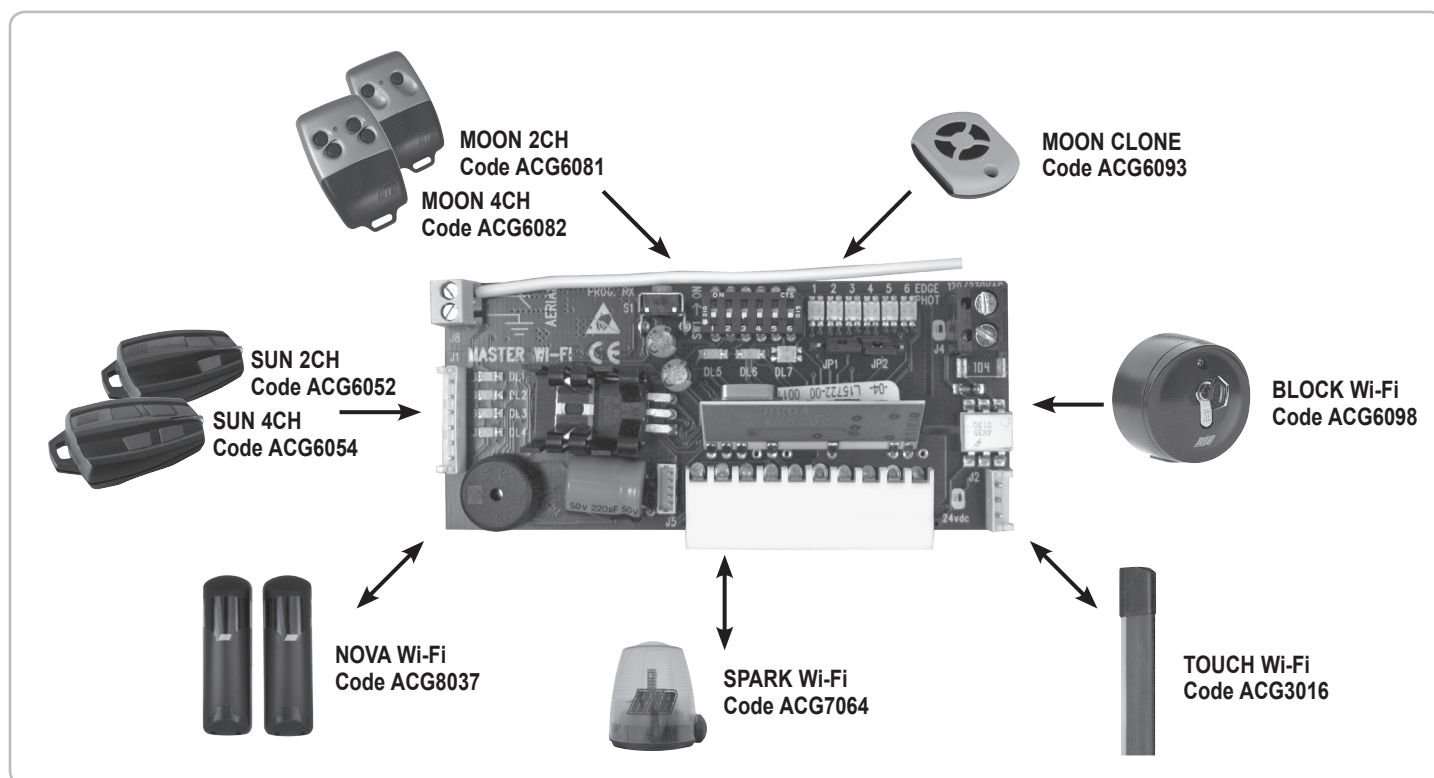


Cod. ACG6094
con innesto
embroachable
with connector
mit Verbinder
con conector



Cod. ACG6099
con morsettiera
avec bornes à visser
with terminal block
mit Endblockierung
con regleta





The Wi-Fi System complies with the standard EN13849-2:2008 and together with a RIB electronic control panel is a Class 2 protection device.

The Wi-Fi System through the use of the MASTER Wi-Fi card permits the construction of a system with NOVA Wi-Fi photocells and TOUCH Wi-Fi strips which also attach to the moveable panel without the need for a cable collector.

The system constantly monitors the presence of the various safety devices and the status of the batteries, completely meeting the need for active safety for all types of openings.

Using the RIB electronic control panel it is possible for the system to perform an auto test as required by current standards.

Each radio-controlled safety device has its own internal identification code which distinguishes it from the others.

REFERENCE STANDARDS FOR AUTOMATIC DOORS AND GATES

The installer must ensure that the Wi-Fi System is connected as specified by the standard EN12453 as per 5.1.1.6 (points e and f) to an electronic control panel capable of performing an operations check before closing (AUTO TEST).

Therefore, the use of RIB devices permits system installation in compliance with current Standards and Directives.

Once machine installation is complete it must be ascertained that it complies with standard EN13241-1.

RIB may not be held responsible for any damage caused by improper, wrong or unreasonable use of the product.

MASTER Wi-Fi

This is the heart of the system: it runs all of the control (433,92 MHz), safety and signaling (868,3 MHz) devices programmed in the installation phase.

MASTER Wi-Fi is available in two versions:

- **MASTER Wi-Fi with connection couplings** (code ACG6094), for use with all non-CRX RIB electronic control panels.
- **MASTER Wi-Fi with terminal block** (code ACG6099), for use with other brands or RIB CRX panels.

SAFETY DEVICES

MASTER Wi-Fi can operate up to 6 safety devices (NOVA Wi-Fi + TOUCH Wi-Fi) at the same time.

- **NOVA Wi-Fi photocells** (code ACG8037): can be connected to a TOUCH mechanical strip (code ACG3015) or a resistive strip on both the photocell transmitter and the photocell receiver.
- **TOUCH Wi-Fi strip** (code ACG3016), with built-in transmitter/receiver.

CONTROLS

MASTER Wi-Fi runs up to 100 different remote control codes:

- MOON dual-channel 433,92 MHz remote controls (code ACG6081)
- MOON four-channel 433,92 MHz remote controls (code ACG6082)
- MOON CLONE 433,92 MHz remote controls (code ACG6093)
- SUN dual-channel 433,92 MHz remote controls (code ACG6052)
- SUN four-channel 433,92 MHz remote controls (code ACG6054)
- BLOCK Wi-Fi mono-channel 433,92 MHz key selector switch (code ACG6098).

MOON remote controls may be coded with a single code.

It is also possible to connect a wired control with N.O. contact.

VISUAL SIGNALS

MASTER Wi-Fi can operate a **SPARK Wi-Fi Blinker** (868,3 MHz) code ACG7064, thereby completing automation.

MASTER Wi-Fi has LEDs for monitoring system status and for identifying photocells or strips with low or exhausted batteries.

SOUND SIGNALS

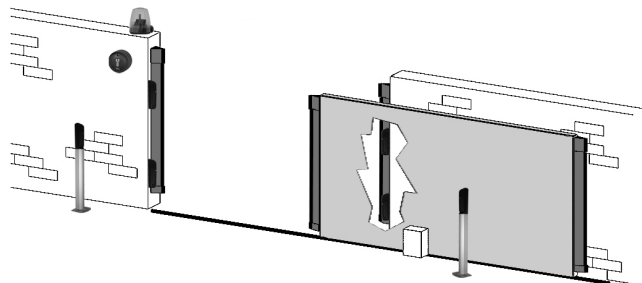
MASTER Wi-Fi has a buzzer which signals installation phases and a warning if the batteries are low or exhausted or, acts as an alarm in case one of the devices is not functioning.

The use of the product inside of metal containers can cause a system-malfunction. It is therefore recommended in these cases to add the aerial code ACG5451 to apply to the metal casing for a perfect reception/transmission of the signals.

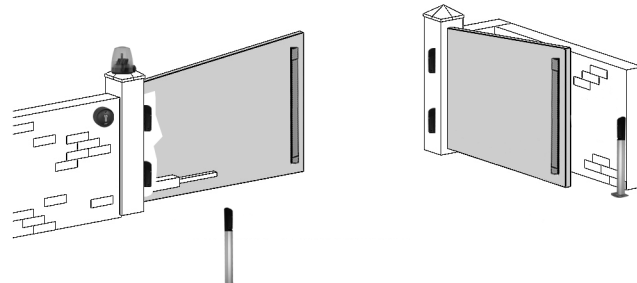
A - INSTALLATION OPTIONS

The Wi-Fi system can be installed on several types of automation.

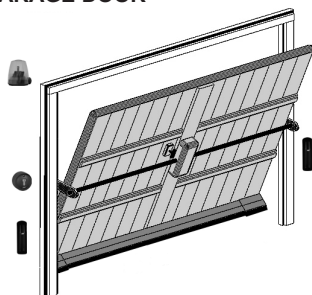
SLIDING GATE



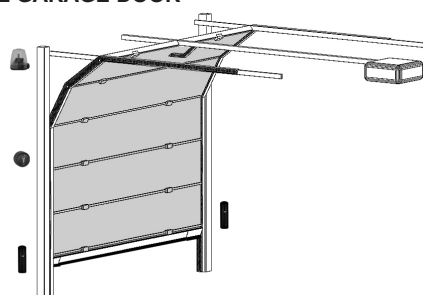
SWING GATE



UP AND OVER GARAGE DOOR



SECTIONAL GARAGE DOOR



B - MOUNTING PROTECTIVE DEVICES

NOVA Wi-Fi PHOTOCELLS

- Attach the NOVA Wi-Fi photocells to the poles or columns about 40+60 cm from the ground and a maximum of 10 cm from the area of movement or closing or just after the encumbrance of any strip present, a maximum of 20 meters from the MASTER Wi-Fi.
- Install the receiver in a shaded area or in a position not exposed to horizontal sunlight.
- It is advisable in every case to place the photocells at the same height and in line with each other.
- For the correct positioning of the photocells refer to the user installation manual or to standard EN12445.

TOUCH Wi-Fi STRIPS

- Attach the TOUCH Wi-Fi strips in the movement or closing area a maximum of 20 meters from the MASTER Wi-Fi.

SPARK Wi-Fi BLINKER

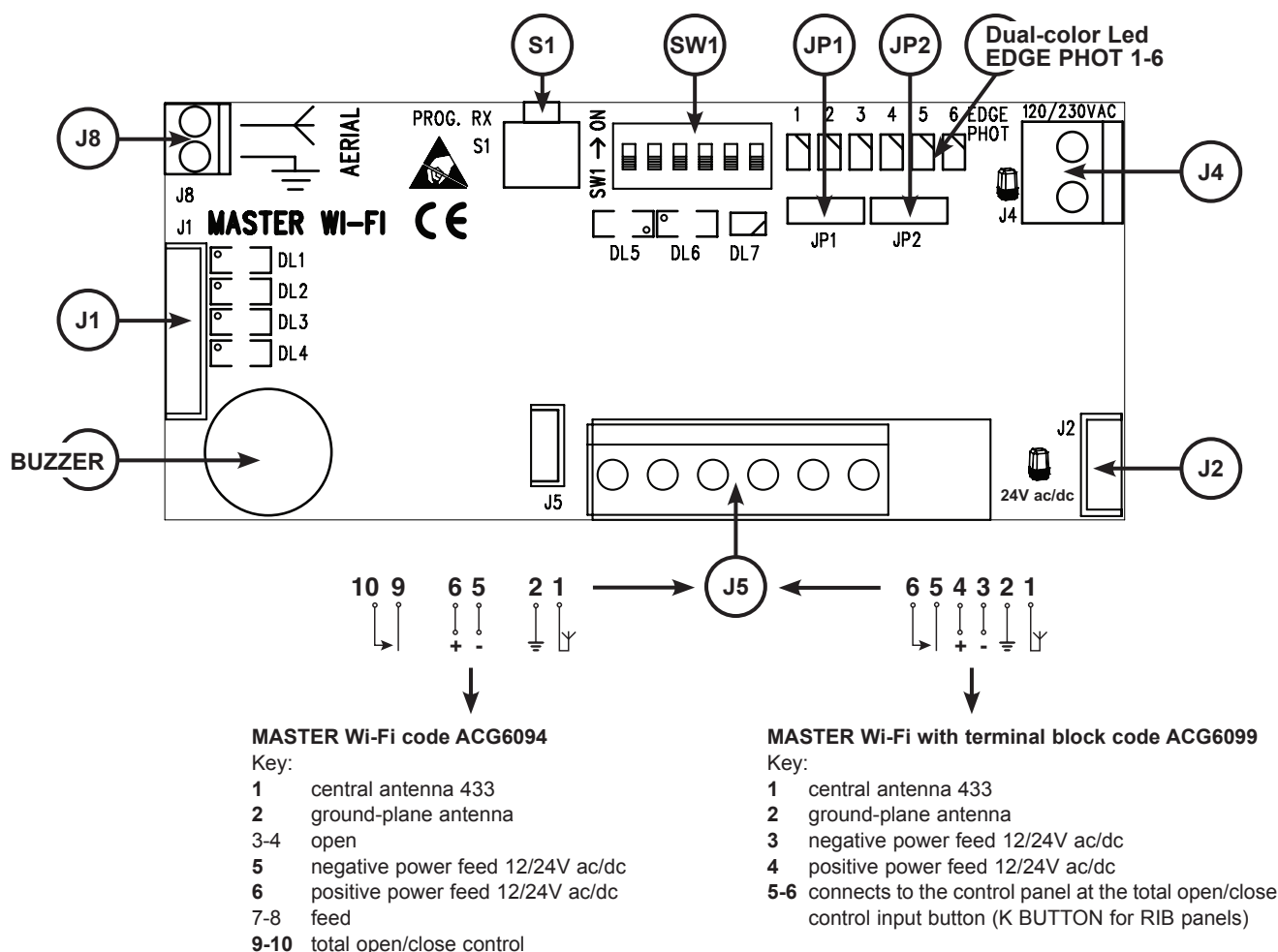
- Attach the SPARK Wi-Fi blinker a maximum of 20 meters from the MASTER Wi-Fi, so that it is visible.

WARNING:

If you remove the power of the MASTER Wi-Fi for a long time, the TOUCH Wi-Fi safety strips and the NOVA Wi-Fi photocells will exhaust faster than normal the charging of their batteries. Keep the MASTER Wi-Fi always properly fed to ensure a period of three years for the batteries-life, as stated by RIB.

If for instance, the power to the system is cut off every night, the photocells and the safety strips will regularly and constantly search for the MASTER Wi-Fi without finding it. Therefore, the life span of the batteries may be reduce to less than one year.

C - ELECTRICAL CONNECTIONS



J1 => CONNECTOR FOR CONNECTIONS TO THE CONTROL PANEL AND SAFETY AND CONTROL INPUTS

Green wire => pedestrian control PED

Gray wire => contact common COM

Yellow wire => sensor EDGE

Black wire => photocell PHOT N.C.

White wire => terminal for connecting the wire coming from the system control button N.O.

Brown wire => auto test power feed A-D+ TEST.

J2 => CONNECTOR FOR CONNECTIONS TO THE 24V ac/dc CONTROL PANEL AT THE BLINKER OUTPUT (CHECK POLARITY)

Red wire => positive (connects to the positive pole of the blinker output)

Black wire => negative (connects to the negative pole of the blinker output)

J4 => TERMINALS FOR CONNECTIONS TO THE 120/230V CONTROL PANEL, AT THE BLINKER OUTPUT

J5 => FEMALE CONNECTOR FOR CONNECTION TO NOT CRX RIB CONTROL PANELS (MASTER Wi-Fi code ACG6094) OR TERMINAL BOARD FOR CONNECTIONS TO OTHER BRANDS OR RIB CRX CONTROL PANELS (MASTER Wi-Fi code ACG6099)

J8 => TERMINAL FOR CONNECTION TO THE ANTENNA 868,3 MHz
JP1 => A/D+ TEST see SELF-TEST-ENABLED RIB ELECTRONIC BOARD CHART.

- Jumper selection auto test mode

+/- Jumper selection auto test mode

JP2 => Radio-control code removal for total and pedestrian opening

SW1 => Micro-switches for pairing and identifying strips and photocells

S1 => **PROG. RX** Programming button

BUZZER => Sound signal for installation, warning and alarm status

LED

DL1 (red) - pedestrian opening control N.O. (PED)

DL2 (red) - strip contact N.C. (EDGE)

DL3 (red) - photocell contact N.C. (PHOTO)

DL4 (red) - total opening command with push-button N.O. in the system

DL5 (green) - activated total opening radio-control.

DL6 (yellow) - electrical power indicator 12-24V ac/dc

DL7 (dual-color) - radio code learning for total, pedestrian and blinker opening

DUAL-COLOR LED EDGE PHOT

off => operating normally

green => strip sensor or photocell engaged

red/green => alarm

LED EDGE PHOT 1 - EDGE SENSOR OR PHOTOCELL 1

LED EDGE PHOT 2 - EDGE SENSOR OR PHOTOCELL 2

LED EDGE PHOT 3 - EDGE SENSOR OR PHOTOCELL 3

LED EDGE PHOT 4 - EDGE SENSOR OR PHOTOCELL 4

LED EDGE PHOT 5 - EDGE SENSOR OR PHOTOCELL 5

LED EDGE PHOT 6 - EDGE SENSOR OR PHOTOCELL 6

SW1 MICRO-SWITCHES

DIP 1 ON => STRIP SENSOR OR PHOTOCELL 1 ACTIVATED

DIP 2 ON => STRIP SENSOR OR PHOTOCELL 2 ACTIVATED

DIP 3 ON => STRIP SENSOR OR PHOTOCELL 3 ACTIVATED

DIP 4 ON => STRIP SENSOR OR PHOTOCELL 4 ACTIVATED

DIP 5 ON => STRIP SENSOR OR PHOTOCELL 5 ACTIVATED

DIP 6 ON => STRIP SENSOR OR PHOTOCELL 6 ACTIVATED

ATTENTION: every time is executed a change of position of dip switches, press PROG RX push-button for 7 times to update the state of dip switches.

At the end the dual-color leds must be turn off.

D - CONNECTING THE MASTER Wi-Fi CARD TO THE CONTROL PANEL

The MASTER Wi-Fi card when inserted on RIB electronic control panels is protected against short circuits by a fuse connected to the secondary of the power supply.

When using a MASTER Wi-Fi card with control panels of other brands, please verify the presence of this protection.

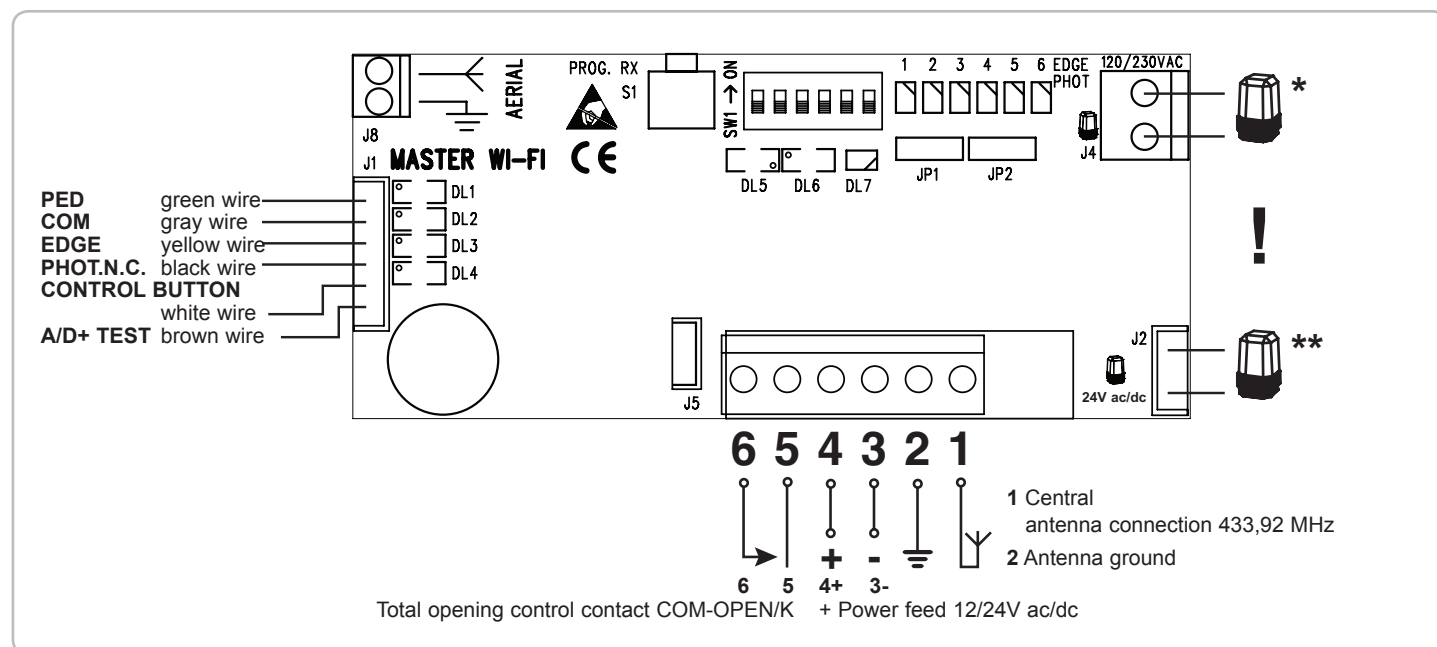
In case it is not available, please connect a fuse with current of T 200 mA in series on the power supply.

Turn off power to the automation control panel.

Couple or connect the MASTER Wi-Fi card and perform the connections as in the following diagram.

NOTE: The opening of the gate occurs 2 seconds after receiving a radio or push button command. That is done to allow the MASTER Wi-Fi card to verify the presence and correct functioning of the memorized safety devices.

Furthermore, it is strongly advisable to avoid using an automatic closing time delay, not longer than 1 minute.



*** OBLIGATORY** connection for panels with a 120/230V ac blinker output
**** OBLIGATORY** connection for panels with a 24V ac/dc blinker output

ATTENTION: CHECK POLARITY

The connection is compulsory also in those cases where the blinker is not installed in the system.

ATTENTION: Always connect the control panel blinker output to the MASTER Wi-Fi card with one of the dedicated terminals, depending on whether the blinker is 230V or 24V. If the connection is not made the door will not work and the buzzer emits 4 sounds indicating that the connection is missing.

PEDESTRIAN CONTROL (gray wire COM, green wire PED) dedicated to pedestrian radio-control.

EDGE INPUT (gray wire COM, yellow wire EDGE) dedicated to the strip safety device.

Attention: any wire jumper present on the COM-EDGE terminals of RIB control panels must be removed.

PHOTOCELL INPUT (gray wire COM, black wire PHOT) dedicated to the photocell safety devices.

Attention: any wire jumper present on the COM-PHOT terminals of RIB control panels must be removed.

CONTROL BUTTON (gray wire COM, white wire N.O. BUTTON)

Input dedicated to a control button with N.O. contact.

This input is particularly useful for total safety when a system control button is already present.

Disconnect the control button from the control panel and connect it to this white wire.

CONNECTION OF THE AUTO TEST INPUT (for compliance with standard EN13849-2:2008)

- If the panel used is equipped with auto test place jumper JP1 as indicated in the "SELF-TEST-ENABLED RIB ELECTRONIC BOARD CHART", following.
- Connect the auto test output of the control panel to the A/D+ TEST terminal of the MASTER Wi-Fi card in order to be able to control the system at the end of every complete automated opening.

- Closing will only occur when the MASTER Wi-Fi card has passed the control test.

- If the MASTER Wi-Fi card control test fails, the control panel will block the automation, the dual-color LED on the MASTER Wi-Fi card indicates a safety outage, alternately flashing red and green.

The buzzer emits an alternating sound for 1 minute to signal the problem.

The alarm status of the buzzer comes on again for 1 minute when a control is given.

If the panel is not equipped with an auto test, the control test is ignored.

E - MASTER Wi-Fi POWER

After having made all of the connections, provide power to the control panel with MASTER Wi-Fi.

The yellow LED DL6 should come on and the buzzer will emit a sound indicating correct power.

The LED DL7 will alternately flash red and green indicating that no remote controls or blinkers have been memorized.

F - IDENTIFICATION OF Wi-Fi SAFETY DEVICES

Every Wi-Fi safety device must **OBLIGATORILY** be identified placing only one of the 6 micro-switches present on its circuit (different for each of the 6 safety devices) in the ON position. Obviously one pair of photocells is considered one safety device and must therefore have a receiver and transmitter with the same DIP in the ON position.

IDENTIFY THE CONTAINERS OF THE SAFETY DEVICES WITH THE NUMBER OF THE ACTIVATED MICRO-SWITCH AND ATTACH THE NUMBERED ADHESIVE STRIP SUPPLIED TO THE OUTSIDE OF EACH CONTAINER.

The adhesive strip serves as a means of quickly identifying the safety device when it needs maintenance.

Note: Each safety device is supplied with the micro-switches in the OFF position so that battery power is not consumed when not in use (if inserted).

Insert the batteries in the Wi-Fi safety devices.

G - MEMORIZATION OF THE SAFETY DEVICES

After having performed the identification of the safety devices, and provided power with the batteries, **place the micro-switches** with the same number of the safety devices on the MASTER Wi-Fi **in the ON position** to activate the safety devices to be memorized.

Use the following procedure for memorization:

- Push the button PROG RX on the MASTER Wi-Fi => dual-color LED EDGE PHOT 1 flashes red for 1 minute (the time needed for memorization).
- Push the button PROG TX on the safety device with micro-switch 1 in the ON position => on the MASTER Wi-Fi the dual-color LED EDGE PHOT 1 flashing red turns green and a sound from the buzzer indicates that the safety device has been memorized correctly, immediately the dual-color LED EDGE PHOT 2 begins flashing red.
- If there are no other safety devices to be memorized after one minute the dual-color LED EDGE PHOT 2 will turn off or, push the button PROG. RX 4 times to end the memorization procedure => all of the dual-color LED EDGE PHOT should be off.

MEMORIZATION OF OTHER SAFETY DEVICES

- After having memorized the first safety device, the dual-color LED EDGE PHOT 2 automatically begins flashing red for 1 minute (the time needed for memorization).
- Push the button PROG. TX on the safety device with micro-switch 2 in the ON position => on the MASTER Wi-Fi the dual-color LED EDGE PHOT 2 flashing red turns green and a sound from the buzzer indicates that the safety device has been memorized correctly.
- Follow the same procedure for any other safety devices (up to a maximum of 6).

NOVA Wi-Fi PHOTOCELLS SYSTEM CHECK

- Check that the micro-switch selected on the transmitter TX NOVA Wi-Fi is the same as that selected on the receiver RX NOVA Wi-Fi (example 1 ON).
- Proper function of the TX NOVA Wi-Fi is shown by the green LED which comes on for 10 seconds.
- Push and release the button S3 "PROG. TX" on the NOVA Wi-Fi receiver (it activates for 3 minutes to perform the alignment procedure). If the photocells are already aligned the red LED emits a constant light. If the red LED is off or emits a flashing light, perform the alignment until it emits a constant light.
- After the alignment check by placing an obstacle that the red LED turns off and that at the same time the dual-color LED EDGE PHOT associated with it during memorization shines green on the MASTER Wi-Fi for the time that the obstacle is present.
- On the MASTER Wi-Fi card, LED DL3 should also be off indicating a proper exchange of the dedicated input with the PHOT on the control panel.
- Repeat the procedure on the other installed NOVA Wi-Fi photocells.
- Perform a function check of all the installed photocells, activating the movement of the automation and checking that by placing an obstacle the automation stops/ reverses when closing, or stops/continues to open when opening.

TOUCH Wi-Fi STRIP SYSTEM CHECK

After having calibrated the TOUCH Wi-Fi strip correctly:

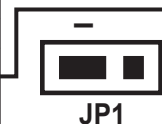
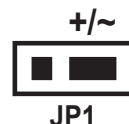
- Push the contact of a TOUCH Wi-Fi strip (for example: safety device number 3).
- On the MASTER Wi-Fi check that the corresponding LED EDGE PHOT 3 flashes green and that the paired LED DL2 momentarily turns off and then turns on.
- ATTENTION:** after receiving the first signal, other signals are ignored for 2 seconds. If there is a signal in these 2 seconds it will be from the LED EDGE PHOT 3 which turns green.
- Repeat the LED activation check on the MASTER Wi-Fi pushing the other TOUCH Wi-Fi strips installed.
- Perform a final check of all of the strips installed, activating the movement of the automation and ensuring that upon impact with the strip the automation stops/ reverses movement.

ANTENNA

For the safeties operating at 868,3 MHz, the aerial is already linked (piece of

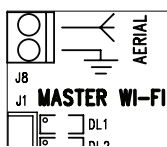
SELF-TEST-ENABLED RIB ELECTRONIC BOARD CHART

RIB ELECTRONIC BOARD	CONNECT A/D+ TEST TERMINAL TO TERMINAL	ENABLE SELF-TEST FUNCTION THROUGH	PLACE JUMPER JP1 ON THE MASTER Wi-Fi CARD IN POSITION:
BOSS 24V - BOSS 24V CRX	Terminal 8	DIP 6	+/~
BOSS 230V - BOSS 230V CRX	Terminal 8	DIP 6	+/~
T2 - T2 CRX	D+ TEST	DIP 13	+/~
T2 24V - T2 24V CRX	A+ TEST	DIP 12	+/~
PT2 - PT2 CRX	D+ TEST	DIP 13	+/~
PARK - PARK CRX	D+ TEST	DIP 9	+/~
K 2007 - K 2007 CRX	D+ TEST	DIP 10	+/~
K 2007 with 24V power feed accessory	A+ TEST	DIP 10	+/~
K 2007 CRX with 24V power feed accessory	A+ TEST	DIP 10	+/~
K2 24V - K2 24V CRX	A+ TEST	JUMPER JP4	+/~
PK2 24V - PK2 24V CRX	A+ TEST	JUMPER JP4	+/~
S1 - S1 CRX	A+ TEST	DIP 12	+/~
J - J CRX	D+ TEST	DIP 7	+/~
KS (with EXPANDER PLEX)	Terminal 2 EXPANDER PLEX card	Activated by inserting EXPANDER PLEX	+/~
KS2 (with EXPANDER PLEX)	Terminal 2 EXPANDER PLEX card	Activated by inserting EXPANDER PLEX	+/~
KS 24V (with EXPANDER PLEX)	Terminal 2 EXPANDER PLEX card	Activated by inserting EXPANDER PLEX	—
KS 24V CRX (with EXPANDER PLEX)	Terminal 2 EXPANDER PLEX card	Activated by inserting EXPANDER PLEX	—



wire linked with the terminal J8), however it becomes necessary to install it to obtain a greater capacity (for example, Master Wi-Fi included in engines Super or Master Wi-Fi, installed in a metal container), connect to terminal J8, respecting the connection of the central wire and the mass, and position it so that the signal is received by all the safety devices. Code aerial 868,3 MHz: ACG5451.

For control panels working at 433,92 MHz, the antenna is also in this case already connected (wire billet in the RIB control panel), however, if it is necessary to install the antenna to attain greater range, connect it to terminals 1-2 if MASTER Wi-Fi WITH TERMINAL BOARD, or to the terminals dedicated to antenna connection on RIB control panels.



NOVA Wi-Fi PHOTOCCELL ALARM SIGNAL CHECK

Check that by taking the battery out of the photocell receiver with micro-switch, for example 3 in the ON position, and commanding the door to open, the dual-color LED3 on the MASTER Wi-Fi alternates green and red, while LEDs DL2 and DL3 turn off, and that the buzzer emits an alternating sound for 1 minute. Repeat the check for any other photocell receivers installed.

Note: if when removing the battery and commanding the door to open the buzzer on the MASTER Wi-Fi does not sound, micro-switch 3 on the MASTER Wi-Fi is in the OFF position (go-ahead not enabled). Turn it to ON.

TOUCH Wi-Fi STRIP ALARM SIGNAL CHECK

Check that by taking the battery out of the transmitter with micro-switch, for example DIP3 in the ON position, the dual-color LED EDGE PHOT 3 on the MASTER Wi-Fi alternates red and green while LED DL2 turns off, and that the buzzer emits an alternating sound for 1 minute.

Repeat the check for any other strips installed.

Note: if the battery is removed and the buzzer on the MASTER Wi-Fi does not sound, micro-switch 3 on the MASTER Wi-Fi is in the OFF position (go-ahead not enabled). Turn it to ON.

WARNING (replace the batteries)

The WARNING tells the user of the immediate need to replace the batteries.

When battery power reaches 2,3V for NOVA Wi-Fi and 3V for TOUCH Wi-Fi, the NOVA Wi-Fi photocell receiver or the strip signal the MASTER Wi-Fi via radio of the low battery status and activate the BUZZER of the MASTER Wi-Fi with a sound every 3 seconds for 1 minute.

The warning is renewed for 1 minute if a command is given to the door.

The dual-color LED on the MASTER Wi-Fi corresponding to the photocell or the strip with the low batteries emits a constant red light.

The SPARK Wi-Fi blinker (if available) indicates the warning by emitting 2 consecutive flashes followed by a pause for 3 seconds for the duration of the opening or closing of the door.

The system is still operational during these signals, but it is advantageous to replace the batteries as soon as possible in order to avoid a full stop of the door operation which happens when the batteries reach 2,0 V for NOVA Wi-Fi and 2,7 V for TOUCH Wi-Fi.

ALARM (batteries completely exhausted or not working)

The alarm activates when the batteries are completely exhausted (2V for NOVA Wi-Fi and 2,7V for TOUCH Wi-Fi) or when they stop working.

On the MASTER Wi-Fi the LEDs DL2 and DL3 turn off MASTER Wi-Fi blocks the automation.

On the MASTER Wi-Fi the dual-color LED corresponding to the photocell or the strip with the low or non-functioning batteries flashes alternately red and green. The BUZZER emits an alternating sound for 1 minute, while the SPARK Wi-Fi blinker (if available) signals the alarm status by emitting 2 consecutive flashes followed by a pause for 3 seconds, notifying the user that the batteries must be replaced or repaired.

The alarm is renewed for 1 minute if a command is given to the door.

TOTAL REMOVAL PROCEDURE FOR MEMORIZED SAFETY DEVICES

To perform a total removal of the safety devices (NOVA Wi-Fi and TOUCH Wi-Fi) recorded in the MASTER Wi-Fi memory just push and hold the button PROG. RX for 10 seconds.

After 10 seconds all of the dual-color LEDs (from EDGE PHOT 1 to EDGE PHOT 6) will flash alternately 6 times, indicating successful removal.

Afterwards the dual-color LED EDGE PHOT and LEDs DL2 and DL3 will turn off.

ATTENTION: WITH LED DL2 AND DL3 OFF AUTOMATION DOES NOT WORK.

REMOVAL PROCEDURE FOR A SINGLE SAFETY DEVICE (PHOTOCCELL OR STRIP)

In order to remove a single memorized safety device on the MASTER Wi-Fi, use the following procedure:

- Push the button PROG. RX one or more times to select the dual-color LED EDGE PHOT which begins flashing green, corresponding to the safety device to be eliminated.
- After selecting the safety device, push and hold the button PROG. RX for 10 seconds.
- After 10 seconds the dual-color LED EDGE PHOT flashes alternately red and green 6 times, indicating successful removal.

ATTENTION: Place the micro-switch corresponding to the eliminated safety device in the OFF position, then scan the dual-color LED pushing the button PROG. RX 6 times.

REPLACING THE BATTERIES

The lifespan of the 1.5 V AA batteries used in the safety devices is about 3 years. In case it is required to replace the batteries, it will not be necessary to re-program the photocells, nor any other RIB Wi-Fi accessories.

- Identify the safety device with the exhausted batteries by checking the diagnostic of the LED EDGE PHOT on the MASTER Wi-Fi.
- Using the number on the side of the dual-color LED EDGE PHOT which is flashing red and green or that emits a constant red light identify the number of the safety device with the exhausted batteries.
- Find the NOVA Wi-Fi or TOUCH Wi-Fi device with the adhesive strip bearing the identification number corresponding to the number of the dual-color LED which is in alarm status on the MASTER Wi-Fi.
- Replace the batteries, checking that the polarity is correct.
- Push button PROG TX on the NOVA Wi-Fi or TOUCH Wi-Fi to restart the MASTER Wi-Fi.
- The buzzer on the strip of the MASTER Wi-Fi will turn off and the LEDs DL2- DL3 (if in alarm status) will come on. The dual-color LED corresponding to the safety device with the replaced batteries will turn off.

The automation is now ready for safe operation.

ATTENTION: Please remember that batteries must be disposed of properly according to current standards. In case of disposal of the safety devices please remember to remove the AA batteries and dispose of them properly

ADDING OTHER SAFETY DEVICES (UP TO 6 TOTAL)

If after installation the use of further safety devices (PHOTOCCELLS OR STRIPS) is desired, to increase door safety, it is recommended to:

- Turn off power to the door.
- Place the safety device in the desired position and identify it by moving the internal micro-switch.
- Perform the programming by setting to ON a micro-switch different from that of the other safety devices installed and identify it with the corresponding numbered adhesive strip (see paragraph F – IDENTIFICATION OF Wi-Fi SAFETY DEVICES).
- Enable the micro-switch of the safety device just added on the MASTER Wi-Fi card.
- Return power to the door.

Follow the memorization procedure and system check as indicated previously.

H - PROGRAMMING THE SPARK Wi-Fi BLINKER

- Push and hold the button PROG. RX on the MASTER Wi-Fi for at least 3 seconds.
 - After releasing the button PROG. RX the dual-color LED DL7 will begin flashing red for 10 seconds.
 - Push the button S4 PROG. TX on the SPARK Wi-Fi blinker to send a radio signal to the MASTER Wi-Fi.
 - Successful memorization is indicated by a sound from the buzzer and the red dual-color LED DL7 on the MASTER Wi-Fi turning green, while the red LED DL7 on the SPARK Wi-Fi card flashes 3 times.
 - Allow 10 seconds to pass to conclude programming, or push button PROG. RX on the MASTER Wi-Fi for a moment.
 - Replace the casing.
 - Mount the diffuser and attach it with the screws provided.
- Only one SPARK Wi-Fi blinker may be memorized.
- If a second blinker is memorized (due to replacement or malfunction), the first memorization is automatically cancelled.

SYSTEM CHECK

Give a command to the door and check that the SPARK Wi-Fi blinker flashes correctly.

PROGRAMMING REMOTE CONTROLS AND THE Wi-Fi BLOCK SELECTOR FOR TOTAL OPENING (maximum of 100 codes)

Using the following procedure it is possible for MASTER Wi-Fi to memorize the following remote controls:

MOON DUAL-CHANNEL 433 MHz	Code ACG6081
MOON FOUR-CHANNEL 433 MHz	Code ACG6082
MOON CLONE 433 MHz	Code ACG6093
BLOCK Wi-Fi KEY SELECTOR 433 MHz	Code ACG6098
SUN DUAL-CHANNEL 433 MHz	Code ACG6052
SUN FOUR-CHANNEL 433 MHz	Code ACG6054

At MASTER Wi-Fi start-up the yellow LED DL6 will turn on.

- At the same time the buzzer will emit a sound indicating proper power status.
 - a - If the MASTER Wi-Fi memory is empty (standard version) the dual-color LED DL7 flashes alternately red and green.
 - a - If codes are already present in the memory, the dual-color LED DL7 remains off (perform a total removal - see paragraph TOTAL CODE REMOVAL PROCEDURE).
- Push and hold the button PROG RX for at least 3 seconds. After release the dual-color LED DL7 on the MASTER Wi-Fi flashes red for 10 seconds. At this time pressing one of the buttons on the transmitter will memorize the code.
- **In addition to the codes, MASTER Wi-Fi also learns the channels that are desired for use. Be careful to remember the buttons pushed on the remote controls during the code memorization procedure as they will be those used thereafter for the total opening.**
- If no code is sent, after 10 seconds the red dual-color LED DL7 on the MASTER Wi-Fi turns off indicating the end of the programming procedure. The dual-color LED DL7 flashes alternately red and green indicating that there are no codes in the memory.
- Successful code memorization is shown by the dual-color LED DL7 emitting a green light for 500ms and by a sound from the buzzer, indicating successful memorization.
- After memorizing the first code, the memorization time resets for 10 seconds and it is possible to memorize more codes.
- To finish the code memorization procedure, allow 10 seconds to pass until the flashing red LED DL7 turns off. Alternatively, push button PROG RX on the MASTER Wi-Fi, also in this case the flashing red LED DL7 turns off, indicating the end of the memorization procedure.

With the dual-color DL7 off, the MASTER Wi-Fi is ready to work.

Push a button of a previously memorized remote control. The green LED DL7 on the MASTER Wi-Fi comes on for a moment, indicating recognition of a valid code. After 2 second led DL5 comes on for a moment, at the same time, total opening is ordered.

Note: If, when pushing a button on the remote control, the dual-color LED DL7 turns red for a moment, this means that the button/code is not in the memory and you must therefore perform the memorization procedure again.

dual-color LED DL7 flashes alternately red and green indicating that there are no codes in the memory.

- Successful code memorization is shown by the dual-color LED DL7 emitting a red light for 500ms and by a sound from the buzzer, indicating successful memorization.
- After memorizing the first code/remote control, the memorization time resets for 10 seconds and it is possible to memorize more codes/remote controls.
- To finish the code memorization procedure, allow 10 seconds to pass until the flashing green LED DL7 turns off. Alternatively, push button PROG RX on the MASTER Wi-Fi, also in this case the flashing green LED DL7 turns off, indicating the end of the memorization procedure.

With the dual-color DL7 off, the MASTER Wi-Fi is ready to work.

Push a button of a previously memorized remote control. The green LED DL7 on the MASTER Wi-Fi comes on for a moment, indicating recognition of a valid code. After 2 second led DL5 comes on for a moment, at the same time, total opening is ordered.

Note: If, when pushing a button on the remote control, the dual-color LED DL7 turns red for a moment, this means that the button/code is not in the memory and you must therefore perform the memorization procedure again.

TOTAL CODE REMOVAL PROCEDURE

- Position jumper JP2 as shown here: 
- Push and release button PROG RX on the MASTER Wi-Fi. The dual-color LED DL7 emits a red light for 0.5 sec. and then turns off, indicating successful removal of codes and start-up information..
- Position jumper JP2 as shown here: 
- The LED DL7 begins flashing alternately red and green, indicating that the memory is empty.

Note: Jumper JP2 during normal operation must be positioned as shown here: 

FULL MEMORY SIGNAL

If, when pushing and holding button PROG RX on the MASTER Wi-Fi for at least 3 seconds, upon release the dual-color LED DL7 flashes green 6 times, this means that the memory is full (maximum 100 codes).

PROGRAMMING REMOTE CONTROLS AND THE Wi-Fi BLOCK SELECTOR FOR PEDESTRIAN OPENING (maximum of 100 codes)

- If the MASTER Wi-Fi memory is empty (standard version), the dual-color LED DL7 flashes alternately red and green.
- Push and hold the button PROG RX for at least 3 seconds. Upon release the dual-color LED DL7 on the edge of the MASTER Wi-Fi turns red.
- Push the button PROG RX on the MASTER Wi-Fi again. The flashing red LED DL7 begins flashing green for 10 seconds, indicating that the codes to be memorized will be associated with pedestrian control. At this time, pushing one of the buttons on the transmitter (different from that used for total opening) will memorize the code.
- **In addition to the codes, MASTER Wi-Fi also learns the channels that are desired for use. Be careful to remember the buttons pushed on the remote controls during the code memorization procedure as they will be those used thereafter for the total opening.**
- If no code is sent, after 10 seconds the green dual-color LED DL7 on the MASTER Wi-Fi turns off indicating the end of the programming procedure. The

TROUBLESHOOTING

PROBLEM	CHECK
All of the LEDs on the MASTER Wi-Fi are off	Ensure that 12 or 24 V ac/dc power is present to the power feed terminals of the MASTER Wi-Fi
During memorization of the safety devices the buzzer sounds for 3/5 second	It has been tried to memorize a safety device with wrong microswitch. Verify that the dual-color led that flashes on MASTER Wi-Fi corresponds at the safety device microswitch to memorize.
During memorization of the safety devices the buzzer sounds 2 twice	A safety device is already in the memory
When giving a command the buzzer sounds 3 times	No safety device has been memorized, memorize at least one or the DIP corresponding to the safety devices memorized on the MASTER Wi-Fi card are OFF. Turn them to ON
When giving a command the buzzer sounds 4 times	Possible cable missing between the MASTER Wi-Fi and the door control card: Blinker to card connection wires detached, or Strip to card connection wires detached, or Photocell to card connection wires detached, or Radio control for pedestrian gate opening not completely closed
The buzzer sounds 5 times when the strip connected to the photocell receiver is pressed	Contact configuration error with the strip connected to the photocell receiver
When giving a command the buzzer sounds 5 times	Resistance not connected in series with the N.C. contact of the strip connected to the photocell receiver, or Wires detached on the strip with N.O. contact, or Resistance not connected in series with the N.C. contact of the strip, or Wires detached on the strip with N.O. contact connected to the photocell receiver
The buzzer emits a sound every 3 seconds and the blinker during the gate operation flashes 2 times in succession followed by a pause of 3 seconds for 1 minute and one of the dual-color leds is ignited red fixed	Replace the batteries of the photocell(s) or the strip(s) as they are low
The gate doesn't move, the buzzer emits an alternating sound and the blinker flashes 2 times in succession followed by a pause of 3 seconds for 1 minute and one of the dual-color leds is ignited green-red alternated	Replace the batteries of the photocell(s) or the strip(s) as they are exhausted
LED DL2 is off and one of the dual-color LED EDGE emits a constant green light	Wires detached on the strip with N.C. contact or Ensure that there is resistance of 8,2kΩ in series with the N.O. contact of the strip connected to the photocell receiver
The buzzer does not sound when the batteries are removed from the strip	Ensure that the micro-switch on the MASTER Wi-Fi corresponding to the strip is in the ON position
The door does not open or close and one of the dual-color LEDs emits a constant green light	Photocell is not aligned or it is engaged. The batteries in the photocell transmitter are exhausted, or resistance of 8,2 kΩ is not connected in series with the N.C. contact or in parallel with the N.O. contact of the strip connected to the photocell transmitter, or resistance of 8,2 kΩ is not connected in parallel with the N.O. contact of the strip connected to the photocell transmitter
The door does not open or close, the buzzer emits an alternating sound and the blinker flashes 2 times in succession followed by a pause of 3 seconds for 1 minute and one of the dual-color LEDs alternates red and green	Photocell or strip receiver batteries are exhausted
The strip connected to the photocell transmitter or receiver does not work as a safety device	Check the correct setting of the jumper of the photocell transmitter/receiver. If the jumpers are correctly setting, remove and put again the batteries.

TECHNICAL SPECIFICATIONS

- POWER	12/24 Vac/dc
- APPLICABLE TENSION ON CONTACT J4	120/220/230V 50/60Hz
- APPLICABLE TENSION ON CONTACT J2	24V ac/dc
- ABSORPTION AT REST	10 mA
- MAXIMUM ABSORPTION	100 mA
- WORKING TEMPERATURE	-20°C ÷ +60°C
- SIZE	96x43x20 mm (code ACG6094)
- WEIGHT	0,042 kg (code ACG6094)
- SIZE	125x55x28 mm (code ACG6099)
- WEIGHT	0,090 kg (code ACG6099)

SAFETY DEVICES AND SIGNALING RADIO FREQUENCY SIGNAL TECHNICAL INFORMATION

- FREQUENCY	868,3 MHz
- SENSITIVITY	-108 dBm
- EMITTING POWER	<25 mW
- MODULATION TYPE	FSK
- RANGE	20 m in open spaces

COMMAND ACTIVATION RADIO FREQUENCY SIGNAL TECHNICAL INFORMATION

- FREQUENCY	433,92 MHz
- SENSITIVITY	-107 dBm
- MODULATION TYPE	OOK
- RANGE	100 m in open spaces with antenna



CERTIFICATO DI CONFORMITA' CERTIFICATE OF CONFORMITY

Ref. n. 10.099

alle prescrizioni tecniche contenute nelle seguenti Norme e/o specifiche tecniche
according to the technical requirements of the following Standard and/or technical specifications
EN 12978 (2009) parr. 4.1 e 4.2; cap. 5 e 6 Industrial, commercial and garage doors and gates - Safety
devices for power operated doors and gates - Requirements and test methods
che conferiscono presunzione di conformità ai requisiti di protezione stabiliti dalle Direttive CEE n.
2006/42/CE Annex I per le prove applicate.
which give compliance with the protection requirements stated by EC Directives n. 2006/42/CE Annex I
for applied tests.

Identificazione del prodotto:
Product identification :

**MASTER WI-FI ACG6094 + NOVA Wi-Fi ACG8037 +
TOUCH WI-FI ACG3016 + SPARK Wi-Fi ACG7064**

Descrizione prodotto:
Product description:

**WI-FI SYSTEM composed by: MAIN UNIT; PHOTOCELLS;
EDGE; BLINKER**

Rif. Rapporto tecnico di prova:
Ref. Technical test report:

**EMC.TR.10.0511; ETS.TR.10.0512; SAF.TR.10.0513;
MAC.TR.10.0515
SAF.TR.10.0517; MAC.TR.10.0518; CLI.TR.10.0519;
IPTR.10.0521; 100245MEC00_00
SAF.TR.10.0525; MAC.TR.10.0530; CLI.TR.10.0527;
IP.TR.10.0529
SAF.TR.10.0533**

Rappresentante autorizzato:
Authorized representative

**RIB SRL
Via Matteotti 162 - 25014 Castenedolo - Bs - Italy**

Costruito da:
Manufactured by:

**Come sopra
Idem as above**

**Si richiama l'attenzione del Costruttore che il presente Certificato consente di apporre sul prodotto sopradescritto la
marcatura di conformità CE e di redigere la Dichiarazione di conformità CE quando sono soddisfatte tutte le altre
disposizioni della sopracitata Direttiva e, qualora sia disciplinato da altre direttive relative ad aspetti diversi e che
prevedono l'apposizione della stessa marcatura, di tutte queste altre direttive.**

*This certificate allows the firm to affix on the above mentioned product the CE marking and to prepare the EC Declaration of
conformity when are fulfilled all other requirements of the aforementioned Directive and, where the same product is the subject
of other Directives providing for the CE marking, when complies with the relevant requirements of those other Directives.*

Faloppio, 22/07/2010

Giovanni Molteni
Technical Manager

European Notified Body

Sede legale : 22100 Tavernola (CO) Via Conciliazione, 1 Cod. FISC. e N. R.I. CO 02635860139
Sede operativa : Laboratori Via Campagna, 92 22020 Faloppio fraz. Gaggino (CO) Tel. +39 03135000.11 Fax +39 031991309





CERTIFICATO DI CONFORMITA' CERTIFICATE OF CONFORMITY

Ref. n. 10.102

**alle prescrizioni tecniche contenute nelle seguenti Norme e/o specifiche tecniche
according to the technical requirements of the following Standard and/or technical specifications
EN ISO 13849-2 (2008) con validazione in categoria 2
che conferiscono presunzione di conformità ai requisiti di protezione stabiliti dalle Direttive CEE n.
2006/42/CE
which give compliance with the protection requirements stated by EC Directives n. 2006/42/CE**

Identificazione del prodotto: **MASTER WI-FI ACG6094**
Product identification :

Descrizione prodotto: **MAIN UNIT FOR PHOTOCELLS AND EDGE SENSOR
WI-FI SYSTEM**
Product description:

Rif. Rapporto tecnico di prova: **MAC.TR.10.0515**
Ref. Technical test report: **RT.10.0514**

Rappresentante autorizzato: **RIB SRL**
Authorized representative **Via Matteotti 162 - 25014 Castenedolo – Bs – Italy**

Costruito da: **Come sopra**
Manufactured by: **Idem as above**

**Si richiama l'attenzione del Costruttore che il presente Certificato consente di apporre sul prodotto sopradescritto la
marcatrice di conformità CE e di redigere la Dichiarazione di conformità CE quando sono soddisfatte tutte le altre
disposizioni della sopracitata Direttiva e, qualora sia disciplinato da altre direttive relative ad aspetti diversi e che
prevedono l'apposizione della stessa marcatura, di tutte queste altre direttive.**

*This certificate allows the firm to affix on the above mentioned product the CE marking and to prepare the EC Declaration of
conformity when are fulfilled all other requirements of the aforementioned Directive and, where the same product is the subject
of other Directives providing for the CE marking, when complies with the relevant requirements of those other Directives.*

European Notified Body

Sede legale : 22100 Tavernola (CO) Via Conciliazione, 1 Cod. FISC. e N. R.I. CO 02635860139

Sede operativa : Laboratori Via Campagna, 92 22020 Faloppio fraz. Gaggino (CO) Tel. +39 03135000.11 Fax +39 031991309

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CERTIFICATO DI CONFORMITA' **CERTIFICATE OF CONFORMITY**

Rif. n. 10.102

ANNEX I

Identificazione del modello derivato: **MASTER WI-FI ACG6099**
Derived model identification :

Descrizione modello derivato: **The derived model ca be mounted on a wall, with plastic enclosure; connector with 6 screw terminals**
Derived model description:

Faloppio, 26/07/2010

Giovanni Molteni
Laboratory Manager

European Notified Body

Sede legale : 22100 Tavernola (CO) Via Conciliazione, 1 Cod. FISC. e N. R.I. CO 02635860139

Sede operativa : Laboratori Via Campagna, 92 22020 Faloppio fraz. Gaggino (CO) Tel. +39 03135000.11 Fax +39 031991309

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CERTIFICATO DI CONFORMITA' CERTIFICATE OF CONFORMITY

Ref. n. 10.101

alle prescrizioni tecniche contenute nelle seguenti Norme e/o specifiche tecniche
according to the technical requirements of the following Standard and/or technical specifications
EN ISO 13849-2 (2008) con validazione in categoria 2
che conferiscono presunzione di conformità ai requisiti di protezione stabiliti dalle Direttive CEE n.
2006/42/CE
which give compliance with the protection requirements stated by EC Directives n. 2006/42/CE

Identificazione del prodotto:
Product identification :

**MASTER WI-FI ACG6094 + NOVA Wi-Fi ACG8037 +
TOUCH WI-FI ACG3016 + SPARK Wi-Fi ACG7064**

Descrizione prodotto:
Product description:

**WI-FI SYSTEM composed by: MAIN UNIT; PHOTOCELLS;
EDGE; BLINKER**

Rif. Rapporto tecnico di prova:
Ref. Technical test report:

MAC.TR.10.0515

Rappresentante autorizzato:
Authorized representative

**RIB SRL
Via Matteotti 162 - 25014 Castenedolo - Bs - Italy**

Costruito da:
Manufactured by:

**Come sopra
Idem as above**

Si richiama l'attenzione del Costruttore che il presente Certificato consente di apporre sul prodotto sopradescritto la marcatura di conformità CE e di redigere la Dichiarazione di conformità CE quando sono soddisfatte tutte le altre disposizioni della sopracitata Direttiva e, qualora sia disciplinato da altre direttive relative ad aspetti diversi e che prevedono l'apposizione della stessa marcatura, di tutte queste altre direttive.

This certificate allows the firm to affix on the above mentioned product the CE marking and to prepare the EC Declaration of conformity when are fulfilled all other requirements of the aforementioned Directive and, where the same product is the subject of other Directives providing for the CE marking, when complies with the relevant requirements of those other Directives.

Faloppio, 26/07/2010

Giovanni Molteni
Technical Manager

European Notified Body

Sede legale : 22100 Tavernola (CO) Via Conciliazione, 1 Cod. FISC. e N. R.I. CO 02635860139
Sede operativa : Laboratori Via Campagna, 92 22020 Faloppio fraz. Gaggino (CO) Tel. +39 03135000.11 Fax +39 031991309



automatismi per cancelli
automatic entry systems

R.I.B. S.r.l.
25014 Castenedolo - Brescia - Italy
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**AZIENDA CON SISTEMA
DI QUALITÀ CERTIFICATO
DA DNV**

**COMPANY WITH QUALITY
SYSTEM CERTIFIED
BY DNV**

DICHIARAZIONE DI CONFORMITÀ - DÉCLARATION DE CONFORMITÉ DECLARATION OF COMPLIANCE - DECLARACIÓN DE CONFORMIDAD

Dichiariamo sotto la nostra responsabilità che MASTER Wi-Fi è conforme alle seguenti norme e Direttive:

MASTER Wi-Fi se conforme aux normes suivantes:

We declare under our responsibility that MASTER Wi-Fi is conform to the following standards:

Wir erklæren das MASTER Wi-Fi den folgenden EN-Normen entspricht:

Declaramos bajo nuestra responsabilidad que MASTER Wi-Fi ed conforme a la siguientes normas y disposiciones:

EN 12978	2009	EN 61000-3-2	2007	EN 61000-6-3	2007
EN 55014-1	2000	EN 61000-3-3	1997	EN 61000-6-4	2007
EN 55014-2	1997	EN 61000-6-1	2007		
EN 60335-1	2008	EN 61000-6-2	2006		

Inoltre permette un'installazione a Norme - Permit, en plus, une installation selon les normes suivantes

You can also install according to the following rules - Desweiteren genehmigt es eine Installation der folgenden Normen

Además permite una instalación según las Normas:

EN13849-2	2008	EN 13241-1	2004
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Come richiesto dalle seguenti Direttive - Conformément aux Directives

As is provided by the following Directives - Gemäß den folgenden Richtlinien

Tal y como requerido por las siguientes Disposiciones:

89/106/EEC	2006/95/CE	2004/108/CE
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Il presente prodotto non può funzionare in modo indipendente ed è destinato ad essere incorporato in un impianto costituito da ulteriori elementi. Rientra perciò nell'Art. 6 paragrafo 2 della **Direttiva 2006/42/CE (Macchine)** e successive modifiche, per cui segnaliamo il divieto di messa in servizio prima che l'impianto sia stato dichiarato conforme alle disposizioni della Direttiva.

Le présent dispositif ne peut fonctionner de manière indépendante, étant prévu pour être intégré à une installation constituée d'autres éléments. Aussi rentre-t-il dans le champ d'application de l'art. 6, paragraphe 2 de la **Directive machines 2006/42/CEE** et de ses modifications successives. Sa mise en service est interdite avant que l'installation ait été déclarée conforme aux dispositions prévues par la Directive.

This product can not work alone and was designed to be fitted into a system made up of various other elements. Hence, it falls within Article 6, Paragraph 2 of the **EC-Directive 2006/42 (Machines)** and following modifications, to which respect we point out the ban on its putting into service before being found compliant with what is provided by the Directive.

Dieses Produkt kann nicht allein funktionieren und wurde konstruiert, um in einen von anderen Bestandteilen zusammengesetzten System eingebaut zu werden. Das Produkt fällt deswegen unter Artikel 6, Paragraph 2 der **EWG-Richtlinie 2006/42 (Maschinen)** und folgenden.

El presente producto no puede funcionar de manera independiente y está destinado a ser incorporado en un equipo constituido por ulteriores elementos. Entra por lo tanto en el Art. 6 párrafo 2 de la **Directiva 2006/42/CEE (Máquinas)** y sucesivas modificaciones, por lo que señalamos la prohibición de puesta en servicio antes de que el equipo haya sido declarado conforme con las disposiciones de la Directiva.

Legal Representative

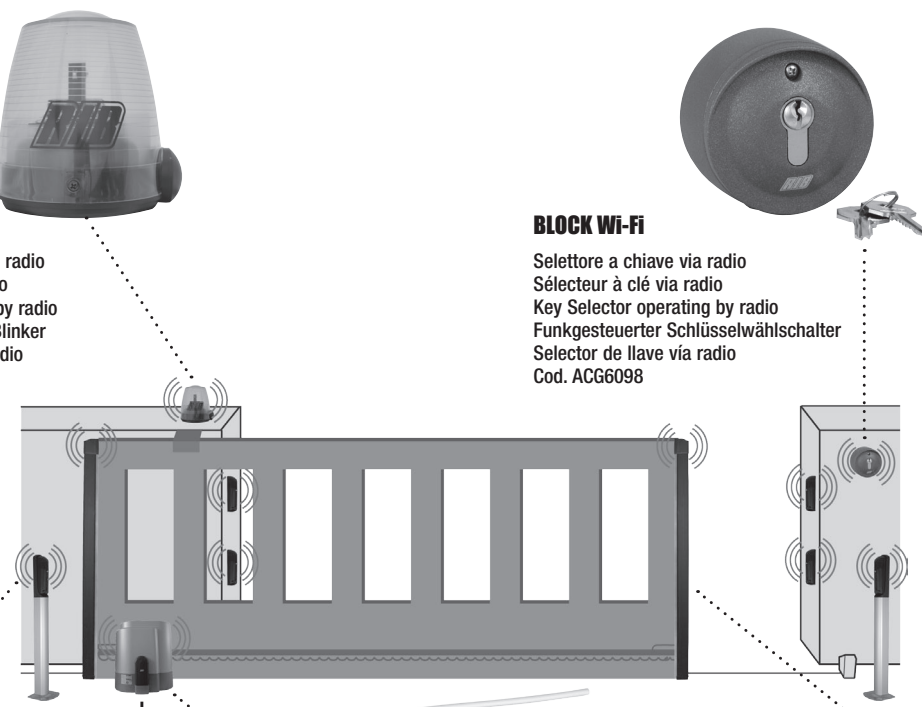
(Rasconi, Antonio)

SPARK Wi-Fi

Lampeggiatore via radio
Clignoteur via radio
Blinker operating by radio
Funkgesteuertes Blinker
Intermittente via radio
Cod. ACG7064

BLOCK Wi-Fi

Selettore a chiave via radio
Sélecteur à clé via radio
Key Selector operating by radio
Funkgesteuerter Schlüsselwählschalter
Selector de llave via radio
Cod. ACG6098



Cavo di alimentazione.
L'unico cavo necessario.
Fils d'alimentation.
L'unique fil nécessaire.
Power Supply cable.
The only one required.
Netzanschlusskabel. Das
einzige erforderliche Kabel.
Cable de alimentación.
Único cable necesario.



MASTER Wi-Fi

Gestisce via radio tutti gli accessori di comando, protezione e segnalazione del cancello
Gère par onde radio tous les accessoires de commande, protection et signal du portail
It manages by radio all command, protection and signalling devices of the gate
Funksteuerung von allen Torbefehlen, Schutz- und Signalzubehörteilen
Gestiona vía radio todos los accesorios de mando, protección y señalización de la cancela

Cod. ACG6094
con innesto
embrochable
with connector
mit Verbinder
con conector

Cod. ACG6099
con morsettiera
avec bornes à visser
with terminal block
mit Endblockierung
con regleta

NOVA Wi-Fi

Fotocellule via radio
Photocellules via radio
Photocells operating by radio
Funkgesteuerte Fotozellen
Fotocélulas vía radio
Cod. ACG8037

TOUCH Wi-Fi

Costa meccanica via radio
Barre palpeuse via radio
Mechanical strip operating by radio
Funkgesteuerte mechanische
Kontaktleiste
Costa mecánica vía radio
Cod. ACG3016



MOON 2CH

Cod. ACG6081

MOON 4CH

Cod. ACG6082



MOON CLONE

Cod. ACG6093



SUN 2CH

Cod. ACG6052

SUN 4CH

Cod. ACG6054



MADE IN ITALY

Questo prodotto è stato completamente progettato e costruito in Italia · Ce produit a été complètement développé et fabriqué en Italie · This product has been completely developed and built in Italy · Dieses Produkt wurde komplett in Italien entwickelt und hergestellt · Artículo totalmente proyectado y producido en Italia

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
=ISO 9001/2000=

RIB
automatismi per cancelli
automatic entry systems

25014 CASTENEDOLO (BS) - ITALY

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