

# VERTIGO Wi-Fi

Brevettato - Patent EP10711742 - EP2347398 - VR2012U000024



RX

VERTIGO Wi-Fi 8 code ACG8042

VERTIGO Wi-Fi 10 code ACG8043

Batterie AA non incluse - Piles AA non incluses - AA batteries not included

AA Batterien nicht beiliegend - Baterías AA no incluidas

## I FOTOCELLULE VERTICALI SENZA FILI

! NON POSIZIONARE MASTER Wi-Fi DIETRO A MURI, PANNELLI METALLICI O ALTRI TIPI DI OSTACOLI CHE POSSANO IMPEDIRE LA COMUNICAZIONE RADIO CON VERTIGO Wi-Fi.

## F PHOTOCÉLULES VERTICALES SANS FIL

! NE PAS POSITIONNEZ MASTER Wi-Fi DERRIÈRE DES MURS, PANNEAUX MÉTALLIQUES, OU AUTRES TYPES D'OBSTACLES QUI POURRAIENT COMPROMETTRE LA TRANSMISSION RADIO AVEC VERTIGO Wi-Fi.

## GB WIRELESS VERTICAL PHOTOCELLS

! DO NOT INSTALL MASTER Wi-Fi CARD BEHIND WALLS, METAL FRAMES OR PANELS, OR OTHER KIND OF OBSTACLES THAT COULD PREVENT THE PROPER RADIO COMMUNICATION WITH VERTIGO Wi-Fi.

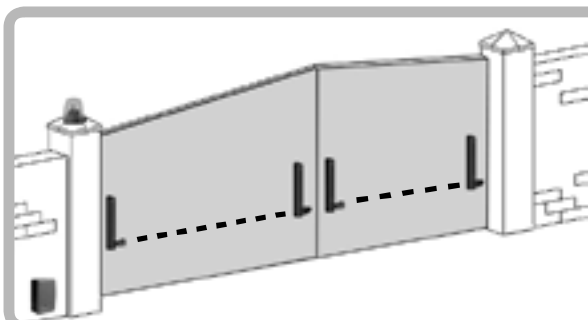
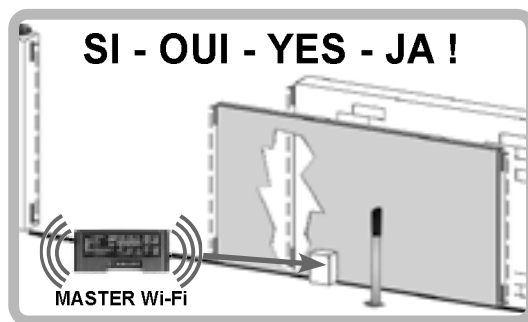
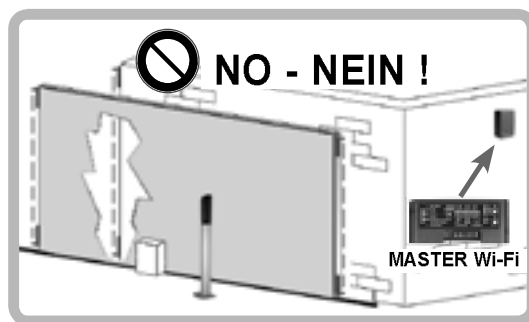
## D KABELLOSE VERTIKALE FOTOZELLE

! NICHT INSTALLIEREN MASTER Wi-Fi KARTE HINTER MAUERN, METALLPLATTEN ODER ANDERE ARTEN VON HINDERNISSEN, DIE DEN FUNKVERKEHR MIT VERTIGO Wi-Fi BEEINTRÄCHTIGEN KÖNNEN.

## ES FOTOCÉLULAS VERTICALES SIN

! NO INSTALAR MASTER Wi-Fi EN UN LUGAR DETRÁS DE LAS PAREDES, DE PANELES DE METAL O DE OTRO TIPO DE OBSTÁCULOS QUE PUEDAN IMPEDIR LA COMUNICACIÓN POR RADIO CON VERTIGO Wi-Fi.

TX



È possibile ruotare di 90° in 90° il gruppo soffiato in modo da orientare il raggio d'uscita infrarosso come desiderato.

On peut faire pivoter de 90° à 90° l'ensemble soufflet afin de diriger le faisceau de sortie infrarouge comme souhaité.

The bellows assembly which includes the lens, can be rotated by 90° in 90° so to adjust the direction of the ray as per installation need.

Sie können um 90° in 90° zu drehen die Balgbaugruppe, um den Strahl von Infrarot-Licht zu lenken, wie gewünscht.

Se puede girar de 90° en 90° el conjunto de fuelle con el fin de dirigir el rayo de salida de luz infrarroja como se desee.

**- ATTENTION -**

**FOR THE SAFETY OF THE PEOPLE IT IS IMPORTANT TO FOLLOW ALL THE INSTRUCTIONS.**

- 1° - **This handbook is exclusively addressed to the specialized personnel** who knows the constructive criteria and the protection devices against the accidents for motorized gates, doors and main doors (follow the standards and the laws in force).
- 2° - Before proceeding with the installation, the installer must forecast the risks analysis of the final automatized closing and the safety of the identified dangerous points (following the standards EN 12453/EN 12445).
- 3° - Before carrying out any installation, regulation or maintenance operation of the system, take off the voltage by operating on the special magnetothermic switch connected upstream it.

THE RIB COMPANY DOES NOT ACCEPT ANY RESPONSIBILITY for possible damages caused by the non observance during the installation of the safety standards and of the laws in force at present.

**KEEP THESE INSTRUCTIONS WITH CARE**

Data described by this manual are only Indicative. RIB reserves to modify them at any time. Install the system complying with current standards and regulations.

**MAINTANANCE**

Must be carried out every six months, only by authorized personnel in agreement with the safety rules and with the manufacturer's instructions.

- The safety accessories must be maintained in good and efficient conditions in accordance with the manufacturer's instructions.
- Verify the presence and readability of the original markings on the product.
- Replace the batteries when requested by the system (see the chart "IN CASE OF DIFFICULTIES").
- Clean the lenses on the transmitter and the receiver using a wet cloth.
- Check that the packaging containers and the bellows are intact. If they are damaged, they must be replaced.
- Check the elasticity of the bellows by folding them and observing whether they return to their original position.

**- ACHTUNG -**

**FÜR DIE SICHERHEIT DER PERSONEN IST ES WICHTIG, DASS ALLE ANWEISUNGEN GENAU AUSGEFÜHRT WERDEN**

- 1° - **Diese Betriebsanleitung dient ausschließlich dem Fachpersonal**, welche die Konstruktionskriterien und die Sicherheits-Vorschriften gegen Unfälle für Tore, Türen und automatische Tore kennt (geltende Normen und Gesetze beachten und befolgen).
- 2° - Vor der Installierung muss für die automatische Schließung und zur Sicherheitsgewährung der identifizierten kritischen Punkte, eine Risiko Analyse vorgenommen werden mit der entsprechenden Behebung der identifizierten, gefährlichen Punkte. (die Normen EN 12453/EN 12445 befolgend).
- 3° - Vor jeglichem Eingriff, sei es Installation, Regulation oder Wartung der Anlage, muss vorher die Stromzufuhr unterbrochen werden, den dafür bestimmten Magnetthermo-Schalter drücken, der am Eingang der Anlage installiert ist.

DIE FIRMA RIB ÜBERNIMMT KEINE VERANTWORTUNG für eventuelle Schäden, die entstehen können, wenn die Installierungsvorschriften die den gültigen Sicherheitsnormen entsprechen, nicht eingehalten werden.

**INSTALLATIONSVORSCHRIFTEN BEACHTET WERDEN**

Die in diesem Handbuch aufgeführten Daten sind ausschließlich empfohlene Werte. RIB behält sich das Recht vor, das Produkt zu jedem Zeitpunkt zu modifizieren. Die Anlage muss in Übereinstimmung mit den gültigen Normen und Gesetzen montiert werden.

**PFLEGE UND WARTUNG**

Das darf nur von autorisiertem Personal, in Übereinstimmung mit Sicherheits-Vorschriften und Anweisungen des Herstellers, alle sechs Monate gemacht.

- Die Sicherheitsvorrichtungen müssen in einwandfreiem Zustand gehalten und gemäß den Anweisungen des Herstellers verwaltet werden.
- Überprüfen Sie das Vorhandensein und die Lesbarkeit der ersten Markierung des Produktes.
- Wechseln Sie die Batterien, wenn das System fragt (siehe Tabelle "IM FALLE VON SCHWIERIGKEITEN").
- Reinigen Sie die Linsen auf Sender und Empfänger mit einem feuchten Tuch.
- Überprüfen Sie die Unversehrtheit der Gehäuse und Bälge. Falls sie beschädigt sind, müssen sie ausgewechselt werden.
- Prüfen Sie die Bälge auf ihre Biegsamkeit und stellen Sie sicher, dass sie in ihre ursprüngliche Position zurückkehren.



VERTIGO Wi-Fi in combination with the electronic device MASTER Wi-Fi conforms to standard EN13849-2 (2008) and when used with a RIB electronic control panel it is a Class 2 protection device for protecting persons/things from collisions caused by mechanical moving parts such as automatic gates or doors.

The obstacle is detected for the whole distance between the infrared transmitter and receiver which constitute the VERTIGO Wi-Fi product.

VERTIGO Wi-Fi can be positioned anywhere without needing to use electrical wire.

The Wi-Fi system (made up of a VERTIGO Wi-Fi and MASTER Wi-Fi) operate at a frequency of 868,3 MHz.

The MASTER Wi-Fi board communicates constantly with VERTIGO Wi-Fi and always indicates interruptions of the infrared signal between the TX transmitter and the RX receiver or any type of malfunctioning.

Each VERTIGO Wi-Fi has its own internal ID code that distinguishes it from the other devices.

The Wi-Fi system is an active security system because it constantly verifies proper functioning of the VERTIGO Wi-Fi devices and battery condition.

When using RIB electronic control panels you can run auto-tests on the system.

With RIB actuators, RIB electronic control panels having the auto-test function and RIB safety devices you can create an installation that conforms to the European Directives and Norms in force.

After completing the system, you must make sure it conforms to standard EN13241-1.

RIB shall not be liable for any damages caused by improper, incorrect or unreasonable use of the product.

## REFERENCE TO STANDARDS FOR AUTOMATIC GATES AND DOORS

### RIB MAY NOT BE HELD RESPONSIBLE FOR DAMAGES CAUSED BY IMPROPER, WRONG OR UNREASONABLE USE.

**Usage restrictions:** The VERTIGO Wi-Fi photocells cannot be used on devices excluded by the application of the EN12978, such as:

- Protection devices for the installation on doors used for a different purpose to those ones used for pedestrian or vehicle access, covered by the norm which principal intent is that of allowing a safe access to industrial, commercial, public and commercial sites. Some examples of excluded accesses can be: sluice gates, dams, lift doors, vehicles' doors, doors used mainly to restrain animals, theatre curtains, railways barriers, barriers used only for vehicles.
- Devices used only for the standard control and for the stopping, including the emergency stopping, of motorized doors.
- Safety systems and safety devices used on machineries different from doors.

**ATTENTION:** Any possible modification of the device, or of the configuration of the same cannot be carried out without the clear authorization by the manufacturer or, by the local authorized dealer.

The installer of the safety device must make sure that the end user know the following:

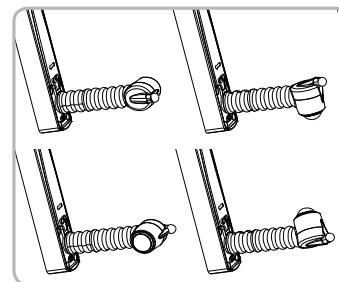
- That the safety devices must be made known to all appropriate people.
- That the passages to reach the devices must be kept clear from any obstacle.
- About the procedures for cleaning so to avoid the dangerous building up of material.
- The possible details for a restart of the system after an emergency or accidental stop caused by the control system.

Any modification of the project or, of the configuration of the device, without discussing it first with the manufacturer or with the local authorized dealer can cause dangerous situations.

**VERTIGO Wi-Fi PHOTOCELLS ARE ONLY ON DURING DOOR OPERATION. THANKS TO THE SLEEP MODE. WHEN THE DOOR IS NOT MOVING THE PHOTOCELLS ARE OFF TO ALLOW FOR LONGER BATTERY LIFE.**

VERTIGO Wi-Fi are produced in wall-type versions:

- VERTIGO Wi-Fi 8 code ACG8042
  - VERTIGO Wi-Fi 10 code ACG8043
- to be fasten to the primary and/or secondary borders (mobile or fixed) made of iron or other smooth material.



It is possible, if necessary, to rotate by 90° in 90° only the ray direction in respect to the main structure that contains the circuit (see picture here aside).

## APPLICATION

	MAX GATE WEIGHT	MAX DISPLACEMENT SPEED
8	150 kg 300 kg	13 m/min. 10 m/min.
10	500 kg 1000 kg	13 m/min. 10 m/min.

## MOUNTING

### VERY IMPORTANT!

When installing the VERTIGO Wi-Fi photocell, besides following the instructions in the chapter "APPLICATION", verify that when using a NOT RIB control panel, this one must be complying with the reaction time (inversion) requested by the Norm EN12453 (requirements of safety devices used on motorized gates/doors).

**PLACE THE RECEIVER OF THE PHOTOCELL ON THE TOP OF THE LEAF AND THE COLUMNS OF THE GATE AND IN FULL VIEW OF THE Wi-Fi MASTER BOARD.**

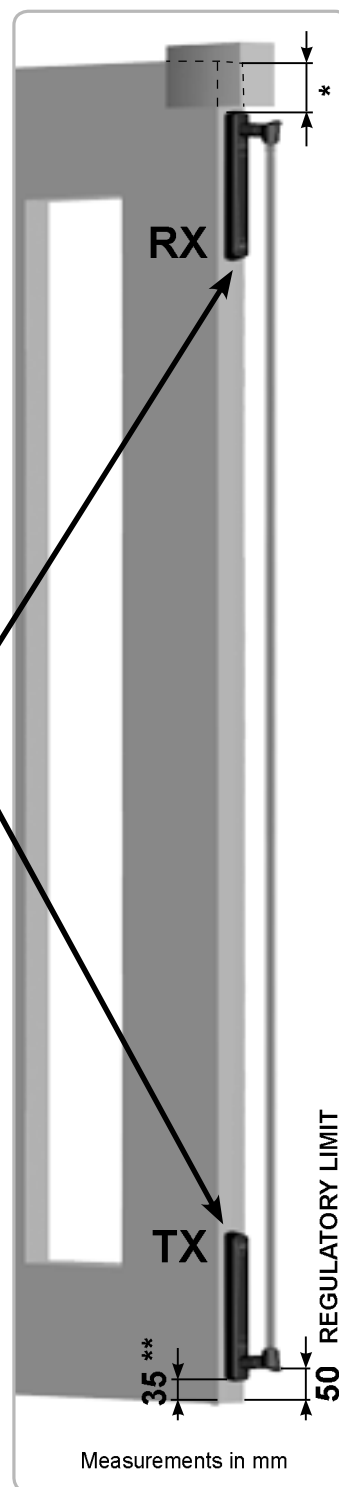
**THE VERTIGO Wi-Fi TRANSMITTER MUST BE APPLIED TO THE BOTTOM OF THE LEAF AND THE COLUMNS OF THE GATE.**

**NO OBSTACLES SUCH AS WALLS, PILLARS OR METAL CABINETS MUST BE PRESENT BETWEEN THE RECEIVER OF THE VERTIGO Wi-Fi PHOTOCELLS AND THE MASTER Wi-Fi BOARD.**

If it is not possible to avoid that because the obstacles cannot be removed, please install an 868 MHz aerial (code ACG5451) on the MASTER Wi-Fi and position it so to guarantee a good quality radio communication between the parts. This solution also prevents the quick discharge of the batteries on the VERTIGO Wi-Fi.

\* Before fastening the base of the RECEIVER to the upper part of the leaf, check for possible obstructions due to potential stops and/or conveying systems.

\*\* Available space for potential mechanical stop.



## TRANSMITTER IDENTIFICATION

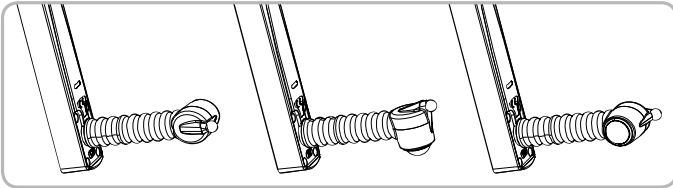
Every pair of VERTIGO Wi-Fi photocells is supplied with the micro-switches in the OFF position.

Every pair of VERTIGO Wi-Fi photocells must **OBLIGATORILY be unequivocally** identified by placing only one of the 6 different micro-switches (SWTX) on the card into the ON position.

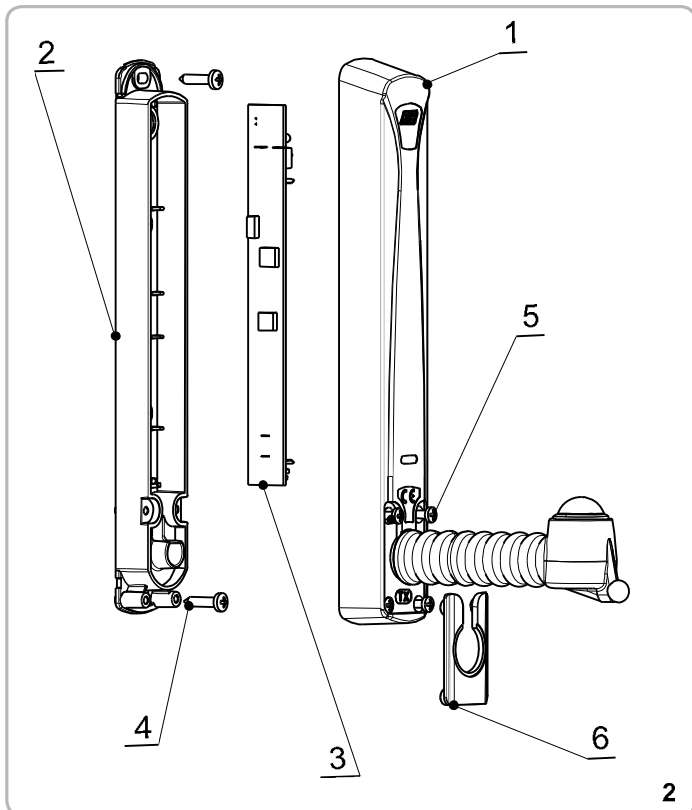
Example: set micro-switch 1 to ON on the MASTER Wi-Fi and micro-switch 1 to ON on the VERTIGO Wi-Fi transmitter.

## ASSEMBLY OF THE INFRARED TRANSMITTER

- Separate the cover with the rubber support (1) from the base (2) and remove the electronic board (3) (Fig. 2).
- Place the base (2) on the lower border of the leaf of the gate and fasten it immediately using 2 self-tapping screws TCCR3,5X16 supplied (4).
- Check that the gasket is present and it is intact within the cover (1).
- If necessary, rotate the bellows assembly which includes the lens by 90°, so to direct the infrared ray as per need (VERTIGO Wi-Fi comes with the infrared ray set as per Fig. 2). It is possible to direct the ray according to the needs:



- Insert the electronic board (3) already mentioned, linked to the cover with the bellow, in the special rails on the base (2).
- Insert the batteries paying attention to the polarity (Fig. 4).
- When the batteries are inserted into the transmitter the DLTX green led (Fig. 1) lights on for 10 seconds, indicating the proper functioning. The led then switches off to avoid consuming the batteries energy, but the transmission of the infrared signal remains active.
- Assemble the cover (1) attaching it to the base (2) on the top part using the special tooth and then close the cover.
- Once the cover is closed, check that it is parallel to the base. Otherwise, open it again and check that the circuit and the connection wires are correctly fitted in their seats.
- Fasten the cover (1) to the base (2) with the 4 self-tapping screws TCCR2,9X9,5 supplied (5).



## TRANSMITTER SETTINGS AND CONNECTIONS

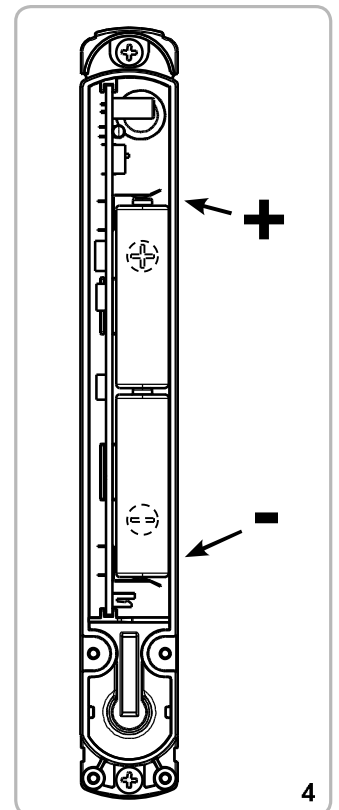
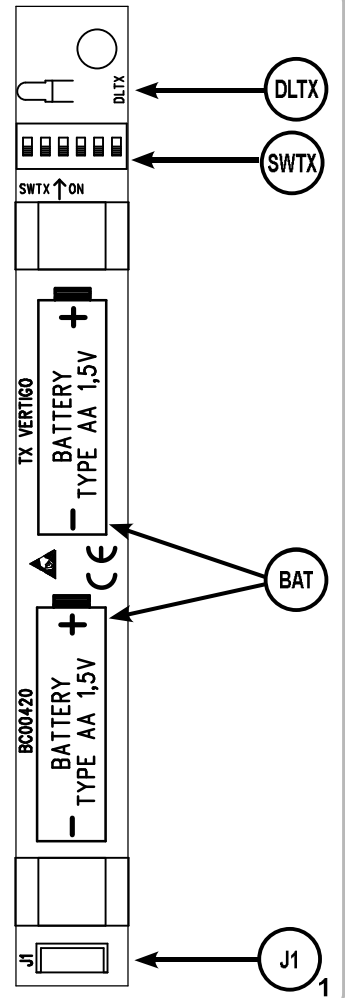
TX

**DLTX** Green LED function indicator

**SWTX** Micro-switches for coordination and identification

**BAT** Alkaline batteries  
2 x AA 1,5V

**J1** Connector for connecting the transmitter diode



## RECEIVER IDENTIFICATION

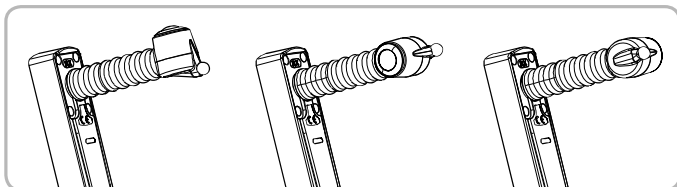
Every pair of VERTIGO Wi-Fi photocells is supplied with the micro-switches in the OFF position.

Every pair of VERTIGO Wi-Fi photocells must **OBLIGATORILY** be **unequivocally** identified by placing only one of the 6 different micro-switches (SWRX) on the card into the ON position.

Example: set micro-switch 1 to ON on the MASTER Wi-Fi and micro-switch 1 to ON on the VERTIGO Wi-Fi receiver (the same DIP set on the transmitter).

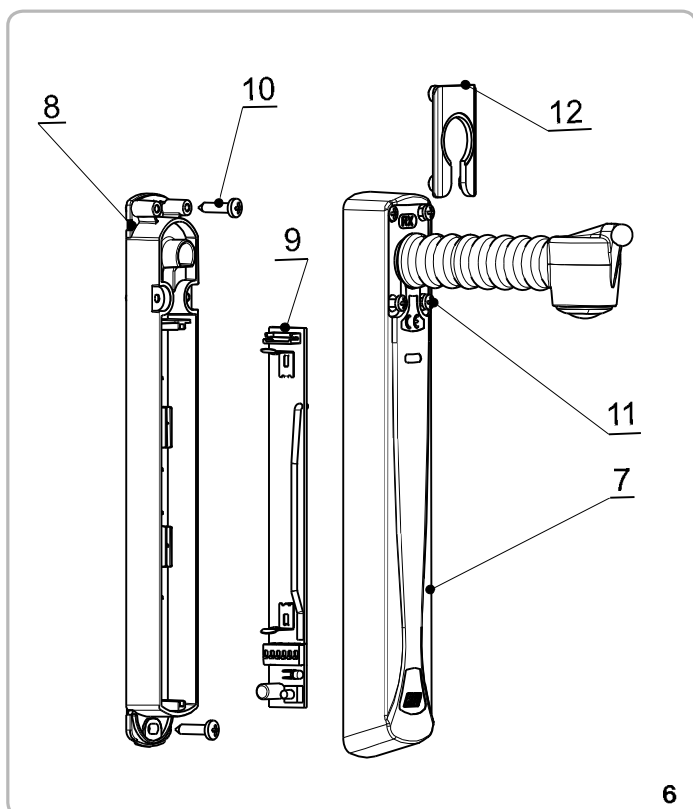
## ASSEMBLY OF THE INFRARED RECEIVER

- Separate the cover with the rubber support (7) from the base (8) and remove the electronic board (9) (Fig. 6).
- Place the base (8) on the upper border of the leaf of the gate (at a maximum distance of 3 metres from the transmitter).
- Fasten it immediately using 2 self-tapping screws TCCR3,5X16 supplied (10).
- Check that the gasket is present and it is intact within the cover (7).
- If necessary, rotate the bellows assembly which includes the lens by 90°, so to direct the infrared ray as per need (VERTIGO Wi-Fi comes with the infrared ray set as per Fig. 6). It is possible to direct the ray according to the needs:



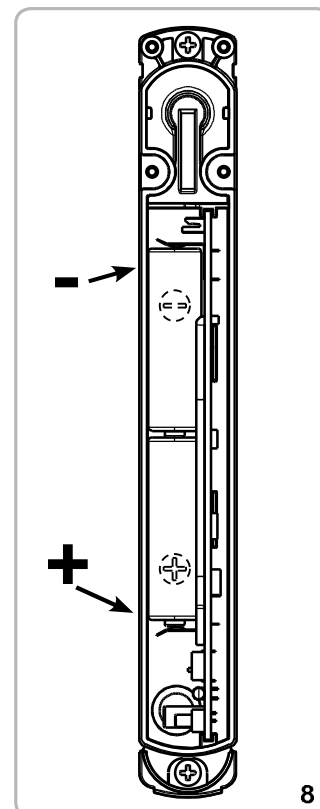
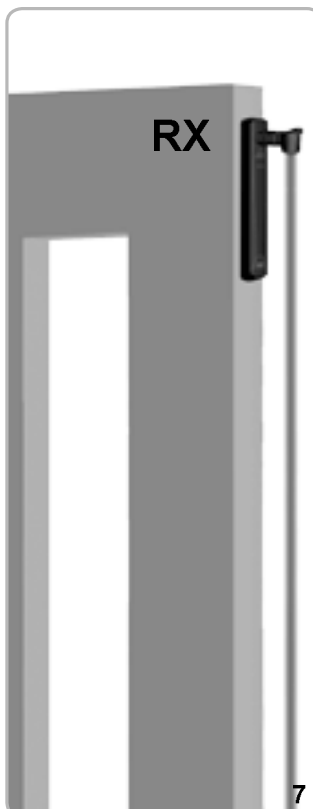
- Insert the electronic board already mentioned, linked to the cover with the bellow, in the special rails on the base.
- Insert the batteries paying attention to the polarity (Fig. 8).
- When the batteries are inserted into the receiver the DLRX red led (Fig. 5) lights on for 3 seconds, indicating the proper functioning.

**CARRY OUT THE STORAGE PROCEDURE AS SPECIFIED IN THE PARAGRAPH "STORAGE" (see next page)**



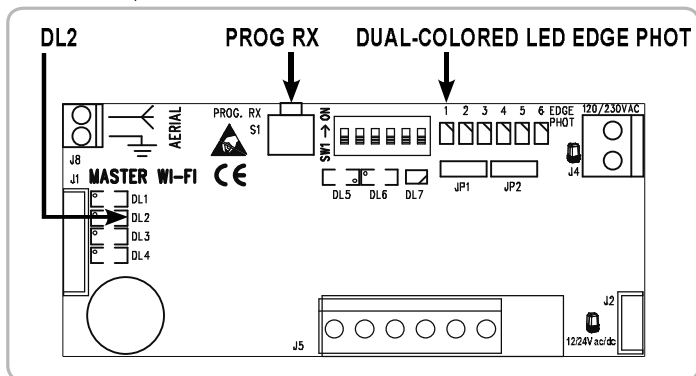
### RECEIVER SETTINGS AND CONNECTIONS RX

<b>J2</b>	Connector for connecting the receiver diode	
<b>BAT</b>	Alkaline batteries 2 x AA 1,5V	
<b>SWRX</b>	Micro-switches for coordination and identification	
<b>DLRX</b>	Red LED indicating correct power and infrared signal alignment	
<b>S3 PROG</b>	Push-button for memorization and alignment	



## MEMORIZATION

- Set the micro-switch 1 on the MASTER Wi-Fi board on "ON" position to enable the pair of VERTIGO Wi-Fi photocells to store.
- To perform memorization use the following procedure:
- Push the button **PROG RX** found on the MASTER Wi-Fi card => the dual-colored LED EDGE PHOT 1 will flash red for 1 minute (the time necessary to perform memorization).



- Push the button **S3 PROG** on the VERTIGO Wi-Fi receiver (Fig. 5) with micro-switch 1 set to ON => on the MASTER Wi-Fi the dual-colored LED EDGE PHOT 1 flashing red will turn green and a buzzer will signal that memorization of the photocell has been done correctly. At the same time on MASTER Wi-Fi the dual-colored LED EDGE PHOT 2 will begin flashing red for 1 minute (the time necessary to perform memorization\*).
- If there are no other photocells to be memorized let a minute pass or push the button PROG. RX 4 times to complete the memorization procedure (the LED EDGE PHOT 2 shuts off) => all of the LEDs EDGE PHOT should be off during normal operation.

- Assemble the cover (7) attaching it to the base (8) on the bottom part using the special tooth, and then close the cover (Fig. 6).
- Once the cover is closed, check that it is parallel to the base. Otherwise, open it again and check that the circuit and the connection wires are correctly fitted in their seats.
- Fasten the cover (7) to the base (8) with the 4 self-tapping screws TCCR2,9X9,5 supplied (11) (Fig. 6).

**ATTACH THE YELLOW LABEL WITH THE IDENTITY NUMBER TO THE COVER (supplied in the MASTER Wi-Fi packaging).**

### \* TO MEMORIZE OTHER VERTIGO Wi-Fi PHOTOCELLS:

- Push the button **S3 PROG** on the VERTIGO Wi-Fi receiver with micro-switch 2 set to ON => on the MASTER Wi-Fi the dual-colored LED EDGE PHOT 2 flashing red will turn green and a buzzer will signal that memorization of the photocell has been done correctly.
- NOTE:** at the end of the memorization procedure and after having enabled the micro-switches for the safety devices memorized on the MASTER Wi-Fi, run a scan on the dual-colored LED EDGE PHOT pushing the button PROG. RX 6 times.
- If, after closing the cover with the RX bellow, the led should remain on, this means that the photocells are already correctly aligned. The led will remain on for 5 minutes, in order to carry out functional checks.
- If the red led remains switched off after closing the protective cover, for no more than 5 minutes, check for correct alignment (as in the illustration) and for any deformation of the bellows; after the checks, the red led should light on.

## SYSTEM CHECK

- After finishing the mounting procedure, check the correct working order between the VERTIGO Wi-Fi photocells and the MASTER Wi-Fi by doing the following:
- Check that the red led on the infrared receiver RX VERTIGO Wi-Fi is on. Otherwise, press the pushbutton S3 PROG to light on the red led for 5 minutes.
  - Place an object between them and check that the red LED turns off and that at the same time on the MASTER Wi-Fi the corresponding LED EDGE PHOT is on and green while the object is present.
  - The LED DL2 of the MASTER Wi-Fi should also turn off indicating the correct exchange of dedicated contact with the EDGE entry on the motor control panel.
  - Repeat the process on the other VERTIGO Wi-Fi photocells installed.
  - Then perform a system check of all the photocells installed by activating the movement of the automation and checking that when an object is present the automation stops/reverses when closing, or stops/continues to open when opening.

## CLOSING THE VERTIGO CONTAINERS

Lastly, place the screw cover caps (6) (12) both on the TX and on the RX of the VERTIGO Wi-Fi (Fig. 2-6), by inserting them into the 4 holes so that they are perfectly attached.

## ANTENNA

The radio antenna is already connected to all of the VERTIGO Wi-Fi receivers. **DO NOT TOUCH IT !!!**

## WARNING

**(notice about replacing the batteries, indicated by MASTER Wi-Fi)**

The WARNING tells the user of the immediate need to replace the batteries. When battery power reaches 2,3V, the photocell receiver signals the MASTER Wi-Fi via radio of the low battery status and activates 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-colored LED on the MASTER Wi-Fi of the photocell with the low batteries emits a constant red light. 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.

**ATTENTION:** The SPARK Wi-Fi flashing light changes flash modes during the warning status; flashing 2 times in quick succession followed by a 2 second pause.

## ALARM STATUS (indicated by MASTER Wi-Fi)

The alarm activates when the batteries have been exhausted (2,0 V) or when a photocell is not working.

On the MASTER Wi-Fi LEDs DL2 and DL3 turn off, stopping the automation due to the fact that one of the photocells installed is not working properly.

On the MASTER Wi-Fi the LED of the photocell with the low or exhausted battery, alternates red to green and the buzzer emits an intermittent sound for 1 minute to alert the user that the batteries or the photocell need attention.

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

**IN ORDER TO REMOVE THE SINGLE PHOTOCELL FROM THE Wi-Fi SYSTEM READ THE MASTER Wi-Fi CARD MANUAL.**

## CHANGING THE BATTERIES

The duration of the batteries used for VERTIGO Wi-Fi photocells is about 3 years.

- Identify which photocell has the exhausted batteries by looking at the LED EDGE-PHOT on the MASTER Wi-Fi card.
  - Identify through the use of the number of the pair of photocells with the exhausted batteries on the side of the dual-colored LED that:
    - alternately flash red to green (if the alarm is on)
    - has a constant red light (if the warning is on)
    - has a constant green light (if the VERTIGO Wi-Fi transmitter batteries are exhausted)
  - Locate the adhesive strip with the corresponding identity number of the photocells on the outside of the container.
  - Replace the batteries of both the transmitter and receiver checking that the polarity is correct.
  - Push the button S3 PROG of the photocell receiver to reactivate the MASTER Wi-Fi. The buzzer on the edge of the MASTER Wi-Fi card turns off and the LED DL2- DL3 (if the alarm is on) turn on and the dual-colored LED of the photocell with the replaced batteries turns off.
- The automation is now ready to begin safe operation once more.
- ATTENTION: Please remember that batteries must be disposed of properly according to current standards. In case of disposal of the photocells please remember to remove and dispose of the batteries properly.**

## REMOVAL PROCEDURE FOR A SINGLE VERTIGO Wi-Fi FOR BREAKDOWN OR SUBSTITUTION

In order to remove a single memorized VERTIGO 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 VERTIGO to be eliminated.
- After selecting the photocell, 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.

**WARNING:** Turn the micro-switch for the eliminated VERTIGO on "OFF" position and press the PROG. RX pushbutton 6 times to carry out the scanning of the two-coloured leds.

## TECHNICAL SPECIFICATIONS

### VERTIGO Wi-Fi RECEIVER

- POWER alkaline batteries 2 x AA 1,5V(>2,7Ah)
- ABSORPTION AT REST 5 µA
- MAXIMUM ABSORPTION 25 mA
- MODULATION TYPE FSK
- BATTERIE LIFE about 3 years
- OPERATING TEMPERATURE -20°C ÷ +60°C
- MAXIMUM TIME OF REACTION OF THE VERTIGO Wi-Fi PHOTOCELL SYSTEM (WHEN BEAM IS CUT) WITH MASTER Wi-Fi 90 ms

When installing the VERTIGO Wi-Fi photocell, besides following the instructions in the chapter "APPLICATION", verify that when using a NOT RIB control panel, this one must be complying with the reaction time (inversion) requested by the Norm EN12453 (requirements of safety devices used on motorized gates/doors)

- COVER in polycarbonate
- BASE in ABS
- BELLOW in silicon
- PROTECTION LEVEL IP55
- WEIGHT 0,135 kg

### RX RADIO FREQUENCY SIGNAL TECHNICAL DETAILS

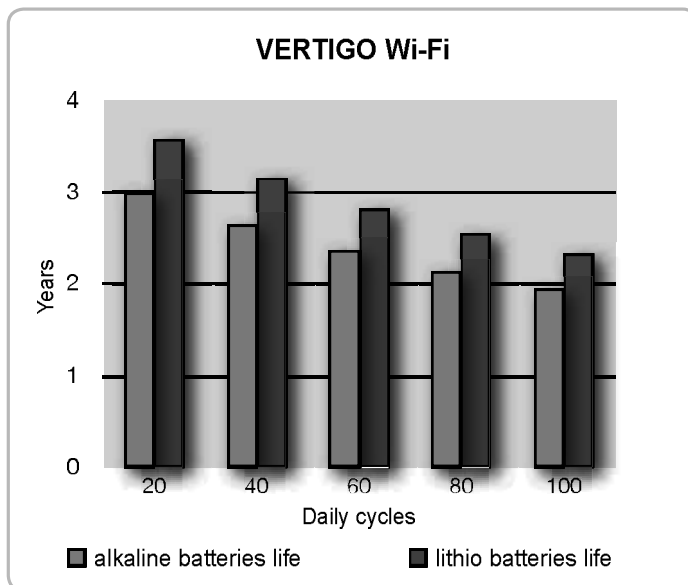
- RANGE 20 m in open spaces without antenna
- FREQUENCY 868,3 MHz
- SENSITIVITY -108 dBm
- EMISSION POWER <25 mW

### VERTIGO Wi-Fi TRANSMITTER

- POWER alkaline batteries 2 x AA 1,5V(>2,7Ah)
- POWER ABSORBED 3 µA
- MODULATION TYPE FSK
- BATTERY LIFE about 3 years
- OPERATING TEMPERATURE -20°C ÷ +60°C
- COVER in polycarbonate
- BASE in ABS
- BELLOW in silicon
- PROTECTION LEVEL IP55
- WEIGHT 0,130 kg

### TX INFRARED SIGNAL TECHNICAL DETAILS

- RANGE 3 m



- WAVELENGTH 850 nm
- DIMENSION OF THE DETECTION AREA diametre 20 mm

## APPLICATION

	MAX GATE WEIGHT	MAX DISPLACEMENT SPEED
VERTIGO Wi-Fi 8	150 kg 300 kg	13 m/min. 10 m/min.
VERTIGO Wi-Fi 10	500 kg 1000 kg	13 m/min. 10 m/min.

## TROUBLESHOOTING

PROBLEM	CHECK
The green LED DLTX of the transmitter does not come on when the battery is inserted.	- Check that the polarity of the batteries is correct, OR - Replace exhausted batteries
The red LED DLRX of the receiver does not come on when the battery is inserted.	- Check that the polarity of the batteries is correct, OR - Replace exhausted batteries
The MASTER Wi-Fi buzzer emits a sound every 3 seconds for 1 minute and the gate continues to function.	Replace the batteries of the photocell(s) as they are low.
The MASTER Wi-Fi buzzer emits an intermittent sound for 1 minute, and the gate does not move.	Replace the batteries of the photocell(s) as they are low.
The gate does not open.	VERTIGO is not aligned, stuck or the transmitter has exhausted batteries
The gate does not open, the buzzer emits an intermittent sound and one of the dual-colored LED turns on alternating red to green.	The VERTIGO receiver batteries are exhausted.

## ACCESSORIES



### AA ALKALINE BATTERIES

4 X 1,5V  
battery life with VERTIGO Wi-Fi 3 years.

code ACG9519



### AA LITHIO BATTERIES

2 X 1,5V - (buy 2 pieces)  
battery life with VERTIGO Wi-Fi 4 years.  
For extreme temperatures -40++60°C.

code ACG9509







**ATTESTATO DI CONFORMITA'  
STATEMENT OF CONFORMITY**

Ref. n. 12.055 Rev.1

alle prescrizioni tecniche contenute nelle seguenti Norme e/o specifiche tecniche, che conferiscono presunzione di conformità ai seguenti requisiti essenziali indicati nella Direttiva 1999/5/CE con riferimento ai Rapporti di Prova di seguito indicati

according to the technical requirements of the following Standard and/or technical specification, which give compliance with the following essential requirements stated by Directive n. 1999/05/EC with specific reference to the following Test Report

Norme Standard(s)	Rapporti di Prova Test Report(s)	Requisiti Essenziali Essential Requirements
EN 50371 (2002) EN 60950-1 (2006) + A11 (2009)	ETSTR_100512-1 SAFTR_120515-0	Art. 3.1a - Health and Safety
EN 301 489-1 v1.3.1 (2008) EN 301489-3 v1.4.1 (2002) EN 61000-6-1 (2007) EN 61000-6-3 (2007)	EMCTR_120154-0	Art. 3.1b - Electromagnetic Compatibility
EN 300 220-2 v2.3.1 (2010)	ETSTR_100512-1	Art. 3.2 Effective use of the radio spectrum

Identificazione del prodotto:  
Product identification :

**VERTIGO WI-FI system consisting of:  
H100 code ACG8043 (photocells)  
H80 code ACG8042 (photocells)  
code ACG 6099 (master)**

Marca:  
Brand:

**RIB**

Descrizione prodotto:  
Product description:

**WIRELESS VERTICAL PHOTOCCELL KIT**

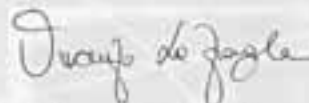
Costruito da:  
Manufactured by:

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

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 sopraccitata 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, 30/07/2012



Ing. Vincenzo La Fragola  
General Manager



## ATTESTATO DI CONFORMITA' STATEMENT OF CONFORMITY

Ref. n. 12.056 Rev.1

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 (2003) + A1 (2009) 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 :

**VERTIGO W1-F1 system consisting of:**  
**H100 code ACG8043 (photocells)**  
**H80 code ACG8042 (photocells)**  
**code ACG 6099 (master)**

Marca:  
Brand:

**RIB**

Descrizione prodotto:  
Product description:

**WIRELESS VERTICAL PHOTOCELL KIT**

Rif. Rapporti di prova:  
Ref. Test reports:

**MACTR\_120515-0; QUALILAB 260-QL12-R01 ver. 0 RIB;**  
**OPTOSCAN 1202-a**

Costruito da:  
Manufactured by:

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

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 sopraccitata 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, 30/07/2012

Ing. Vincenzo La Fragola  
General Manager

Organismo Notificato Europeo ai sensi delle Direttive 2004/108/CE (EMC); 2006/95/CE (BT); 2006/42/CE (MAC); Laboratorio autorizzato NSAI; FCC Test Firm; IC test Firm  
PRIMA RICERCA & SVILUPPO SRL

Via Campagna, 92 - 22020 Faloppio Inaz, Gaggino (CO) - Tel. +39 03135000.11 - Fax. +39 031991309 - Cod. FISC. e P.I. CO 02635660139





## ATTESTATO DI CONFORMITA' STATEMENT OF CONFORMITY

Ref. n. 12.057 Rev. 1

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 essenziali di sicurezza e di tutela della salute stabiliti dalle Direttive CEE n. 2006/42/CE coperti da tale norma armonizzata  
which give compliance with the essential health and safety requirements stated by EC Directives n. 2006/42/CE covered by such a harmonised standard

Identificazione del prodotto:  
Product identification :

*VERTIGO WI-FI system consisting of:  
H100 code ACG8043 (photocells)  
H80 code ACG8042 (photocells)  
code ACG 6099 (master)*

Marca:  
Brand:

*RIB*

Descrizione prodotto:  
Product description:

*WIRELESS VERTICAL PHOTOCCELL KIT*

Rif. Rapporti di prova:  
Ref. Test reports:

*MACTR\_120516-0*

Costruito da:  
Manufactured by:

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

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, 30/07/2012

Ing. Vincenzo La Fragola  
General Manager

Organismo Notificato Europeo ai sensi delle Direttive 2004/108/CE (EMC); 2006/95/CE (BT); 2006/42/CE (MAC); Laboratorio autorizzato NSAI; FCC Test Firm; IC test Firm  
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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 VERTIGO Wi-Fi è conforme alle seguenti norme e Direttive:

VERTIGO Wi-Fi se conforme aux normes suivantes:

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

Wir erklaren das VERTIGO Wi-Fi den folgenden EN-Normen entspricht:

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

EN 12978	2009	EN 61000-6-1	2007	EN 50371	(2002-03)
EN 55014-1	2000	EN 61000-6-2	2006	EN 301489-1 V1.8.1	(2008)
EN 55014-2	1997	EN 61000-6-3	2007	EN 301489-3 V1.4.1	(2002)
EN 60335-1	2008	EN 61000-6-4	2007	EN 60950-1:2006 + EN 60950-1/A11:2009	
EN 61000-3-2	2007	EN 300 220-1 V2.3.1	(2010-02)		
EN 61000-3-3	1997	EN 300 220-2 V2.3.1	(2010-02)		

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**

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 - 1999/5/EC - 2004/108/CE - 2006/95/CE**

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

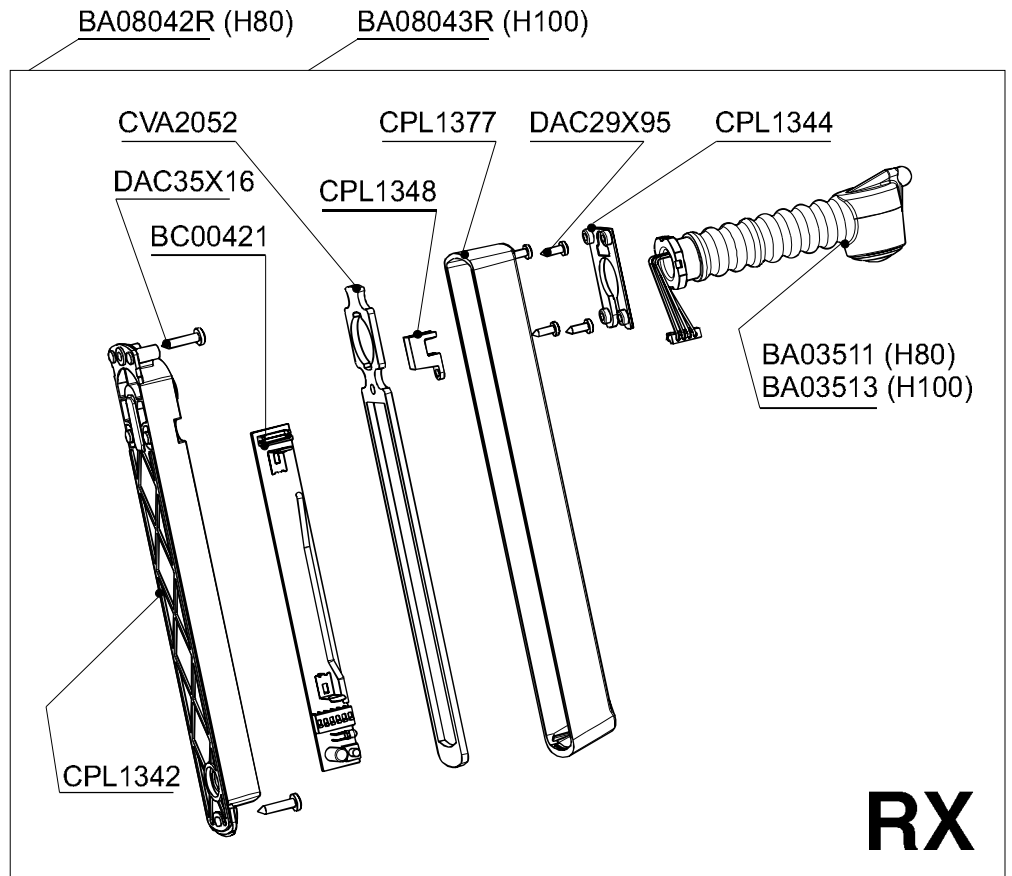
(Rasconi Antonio)

30/07/2012

# VERTIGO Wi-Fi

## RICEVITORE VERTIGO Wi-Fi

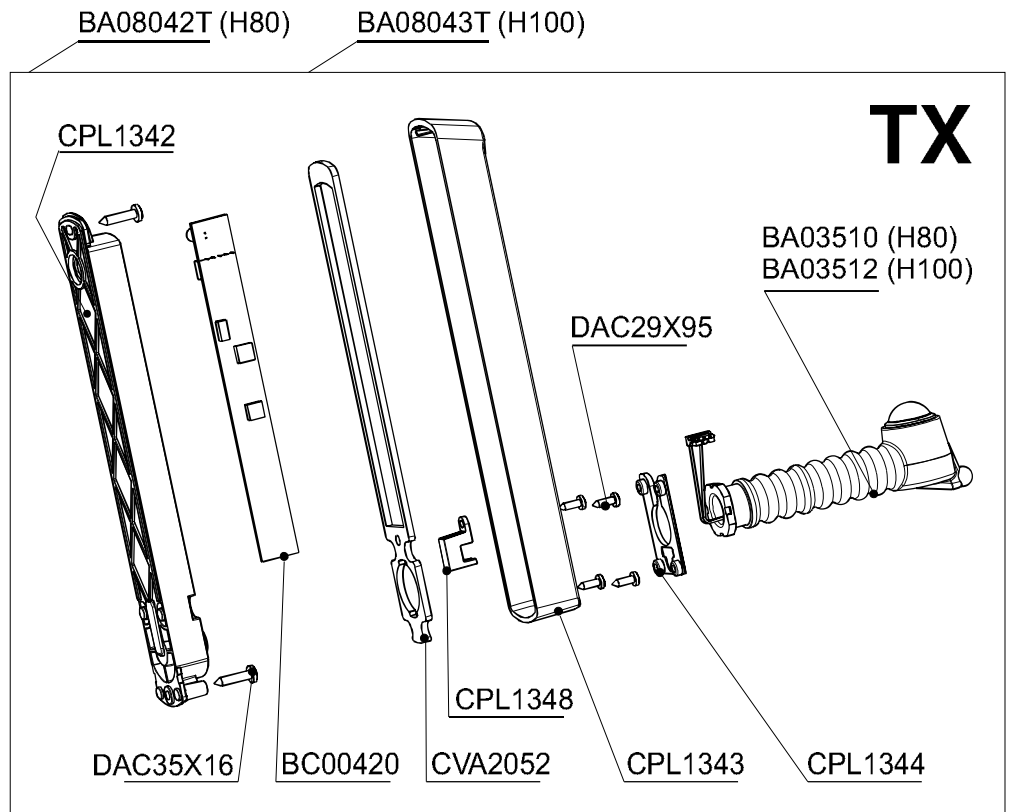
CODICE	DENOMINAZIONE PARTICOLARE
BA03511	Gruppo lente RX VERTIGO Wi-Fi 8
BA03513	Gruppo lente RX VERTIGO Wi-Fi 10
BA08042R	RX VERTIGO Wi-Fi 8
BA08043R	RX VERTIGO Wi-Fi 10
BC00421	Frutto RX
CPL1342	Base
CPL1377	Coperchio RX
CPL1344	Tappi per viti
CPL1348	Guida cavi
CVA2052	Guarnizione interna
DAC29X95	Vite aut. TC.CR. 2,9x9,5 zincata
DAC35X16	Vite aut. TC.CR. 3,5x16 DIN7981



# RX

## TRASMETTITORE VERTIGO Wi-Fi

CODICE	DENOMINAZIONE PARTICOLARE
BA03510	Gruppo diodo TX VERTIGO Wi-Fi 8
BA03512	Gruppo diodo TX VERTIGO Wi-Fi 10
BA08042T	TX VERTIGO Wi-Fi 8
BA08043T	TX VERTIGO Wi-Fi 10
BC00420	Frutto TX
CPL1342	Base
CPL1343	Coperchio TX
CPL1344	Tappi per viti
CPL1348	Guida cavi
CVA2052	Guarnizione interna
DAC29X95	Vite aut. TC.CR. 2,9x9,5 zincata
DAC35X16	Vite aut. TC.CR. 3,5x16 DIN7981



# TX



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 MANAGEMENT  
SYSTEM CERTIFIED BY DNV  
= ISO 9001:2008 =**

**RIB**

automatismi per cancelli  
automatic entry systems

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