SETTINGS AND TRANSMITTER CONNECTIONS

J1 AD+ Feed terminal 12÷24 V ac/dc AD- Feed terminal 12÷24 V ac/dc

EDGE TX Feed terminals for mechanical or resistive safety edge

JP1 Safety edge enabling/disabling jumper (standard jumper not inserted for unconnected safety edge. Disable the jumper if a safety edge is connected)

JP2 Range selector jumper (15 or 30 meters - factory setting 30 m)

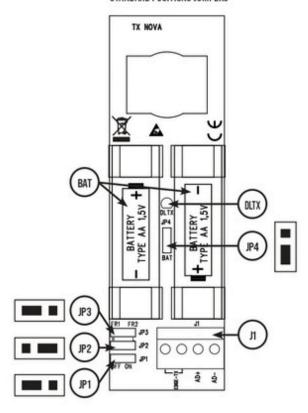
JP3 Frequency selector jumper (2 available)

JP4 Power selector jumper (battery or network)

BAT Alkaline batteries 2 x AA 1,5V (if network power is not used)

DLTX Green LED function indicator

STANDARD POSITIONS JUMPERS



SETTINGS AND RECEIVER CONNECTIONS

J2 AD+ Feed terminal 12÷24 V ac/dc
AD- Feed terminal 12÷24 V ac/dc
COM Contact system
PHOT NC Contact normally closed

PHOT NC Contact normally closed PHOT NO Contact normally open

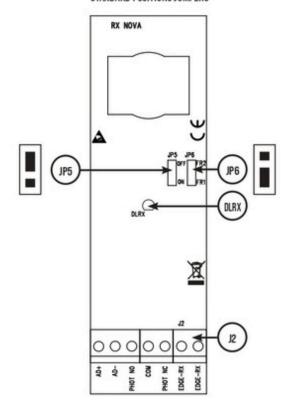
EDGE RX Feed terminals for mechanical or resistive safety edge

JP5 Safety edge enabling/disabling jumper (standard jumper not inserted for unconnected safety edge. Disable the jumper if a safety edge is connected)

JP6 Frequency selector jumper (2 available)

DLRX Red LED indicating correct power and infrared signal alignment

STANDARD POSITIONS JUMPERS



NOTE: AFTER CHANGING THE POSITION OF THE JUMPERS IT IS NECESSARY TO REMOVE AND REAPPLY POWER TO BOTH THE TRANSMITTER AND THE RECEIVER.

REFERENCE TO STANDARDS FOR AUTOMATIC GATES AND DOORS

The installer must ensure that the installation of the NOVA photocells is performed only in the presence of further protection as specified by standard BS EN 12453:2022 in 5.1.3. (general protection requirements).

PHOTOCELLS MONITORING (A+ TEST A-) as required by EN12453 par. 5.1.2

Connect the photocells to A+ TEST/A- and set DIP 7 to ON (L1, L1 24V, B2, B2 24V, P1, P124V). The monitoring consists of a functional test of the photocell run before every movement. The gate movement is therefore permitted only if the photocells have passed the functional test.

WARNING: If the AUTOTEST feature is enabled and only one photocell is connected, a jumper must be made between the PHOT 1 and PHOT 2 terminals (L1, L124V, B2, B2 24V, P1, P1 24V). If the jumper is not made, the AUTOTEST fails and the gate will not move.

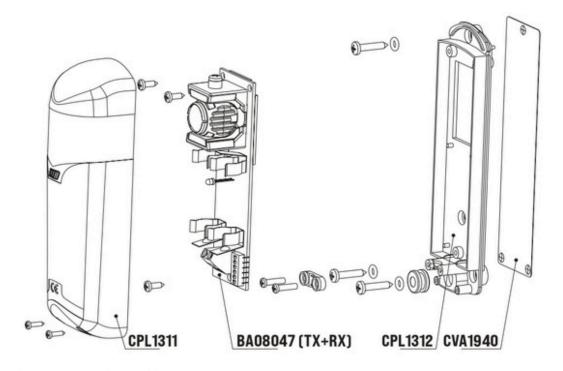
RIB MAY NOT BE HELD RESPONSIBLE FOR DAMAGES CAUSED BY IMPROPER, WRONG OR UNREASONABLE USE.

USES

NOVA WIRELESS photocells are technologically advanced and completely meet the active security demands of all types of automatic opening systems.

They are produced in versions for wall mounting, for mounting to columns of iron or other smooth material, or on dedicated SUPPORT COLUMNS cod. ACG8039.

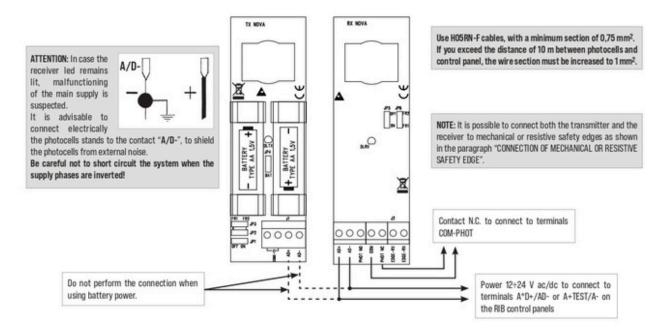
MOUNTING



N.B.: Before placing the drilling template (code CVA1940) make sure that the contact surface is clean.

- Affix the plastic bases CPL1312 to the pillars or columns about 40±60 cm from the ground and at a maximum distance of 10 cm from the conveyance or pressure area or immediately out of range of any protruding edge.
- After adjustment attach the protective casing CPL1311.
- Install the receiver in a shaded area or in a position not exposed to horizontal sunlight.
- In every case it is advisable 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 EN 12453:2017.

CONNECTIONS



If battery power is used, place the transmitter jumper JP4 in this position:



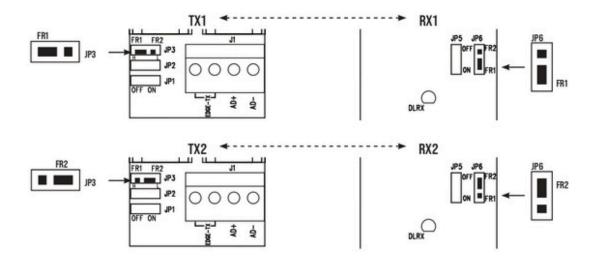
If an external power source is used, place the transmitter jumper JP4 in this position.



SYNCHRONIZATION

NOVA Wi-Fi photocells may be installed very close together thanks to SYNCHRONIZATION.

SYNCHRONIZATION is guaranteed for up to 2 pairs of photocells working on the jumpers JP3 for the transmitter and JP6 for the receiver as shown below.



RANGE

It is possible to adjust the range of the photocells by placing a jumper on the transmitter(s).

Jumper JP2 with a range of 30 m (factory setting)



Jumper JP2 with a range of 15 m



- After affixing the plastic bases of the NOVA WIRELESS photocells, insert the circuit boards into the proper places on the bases and attach them with the supplied screws.
- Make the electrical connections as in the diagram.

CONNECTING THE BATTERY TO THE TRANSMITTER TX

If 1,5V battery power is desired, follow these instructions:

- Check that jumper JP4 is set for battery power.
- Insert the two AA 1,5V Alkaline batteries checking that the polarity is correct (see side image).

Upon insertion of the batteries into the transmitter TX the green LED will light for 10 seconds indicating that it works correctly. The LED then shuts off so as not to waste battery energy, but the infrared signal is active.



ALIGNMENT

- NOVA WIRELESS photocells are packaged with central alignment however, if necessary, it is
 possible to adjust the optical units of the transmitter and receiver (+90°/-90° horizontally
 and +5°/-5° vertically).
- After performing the alignment the red LED on the receiver must emit a constant light to indicate correct reception of the infrared signal from the transmitter. If the red LED is flashing it means that the signal is weak and that the alignment must be improved until the red LED emits a constant light.
- If the transmitter and the receiver are mounted at a distance of less than 15 meters, we recommend positioning the jumper JP2 as indicated in the paragraph "RANGE". This will provide lower battery consumption and consequently add to their duration.
- Mount the protective cover.

SYSTEM CHECK

SYNCHRONIZATION:

- Place an object in front of the transmitter.
- Check that the red LED of the corresponding receiver turns off.

NO SYNCHRONIZATION:

- Place an object in front of the transmitter and then in front of the receiver.
- Check that the red LED of the receivers is off in both cases.

WARNING (replace the batteries)

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

When battery power reaches 2,2V, placing or moving an object between the photocells causes the transmitter to signal the receiver of the low battery status. The receiver activates the BUZZER which emits a sound every half second for 1 minute.

The warning (the sound of the buzzer) is renewed for 1 minute every time something passes between the photocells.

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 1,8V.

LOW BATTERY ALARM

The alarm activates when the batteries have been exhausted (1,8V) or when a photocell is not working.

The alarm sounds 3 hours after the loss of the infrared signal by the receiver.

The receiver buzzer emits a continuous sound for 1 minute every 3 hours, until the batteries have been replaced.

During this time the red LED of the receiver shuts off signaling the stop of automation.

CHANGING THE BATTERIES

The duration of the batteries used for NOVA WIRELESS photocells is about 3 years.

Replacing the Alkaline batteries AA 1,5V is easy.

- Identify the transmitter with the exhausted batteries. To do this simply check the status
 of the system receiver. If the red LED of a receiver is always off, the batteries of the
 corresponding transmitter are exhausted.
- Remove the protective cover from the transmitter.
- Replace the batteries checking that the polarity is correct.
- Check that the green LED of the transmitter and the red LED of the receiver are on.
- Replace the protective cover on the transmitter.

L'automazione può ripartire in tutta sicurezza.

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 the AA batteries and dispose of them properly.

IN CASE OF DIFFICULTY

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, or - If a safety edge is connected to the transmitter TX and this is stuck or not working, check the safety edge contacts and connections and the presence of resistance of 8,2 KD.
The red LED DLRX of the receiver does not come on.	- Transmitter batteries are exhausted. Replace them or - If a safety edge is connected to the receiver and this is stuck or not working, check the safety edge contacts and connections and the presence of resistance of 8,2 KD.
Moving in front of the photocells the buzzer emits a sound every 5 second for 1 minute and the door continues to function.	Replace the batteries of the transmitter(s) as they are exhausted.
The receiver buzzer emits a continuous sound for 1 minute and the door does not move.	Replace the batteries of the transmitter(s) as they are exhausted.
The door does not open.	- The photocell is not aligned, stuck or the transmitter has exhausted batteries, or - Resistance of 8,2kQ is not connected in series to the N.C. contact or in parallel to the N.O. contact of the safety edge connected to the transmitter or receiver.
The safety edge connected to the transmitter or receiver does not work.	Check the correct operation enabling of the safety edge by checking jumper JP1 on the transmitter and JP5 on the receiver. If the jumpers are correct turn off and then turn on power to the photocells.

CONNECTION OF THE MECHANICAL (TOUCH code ACG3015) OR RESISTIVE SAFETY EDGES TO THE NOVA WIRELESS PHOTOCELLS

NOTE: THE SAFETY EDGES CONNECTED TO THE PHOTOCELLS MAKE THE DOOR REACT AS TO THE PHOTOCELLS THEMSELVES. THEREFORE PAY ATTENTION TO WHERE THEY ARE POSITIONED.

THE FUNCTIONALITY OF THE SAFETY EDGES APPLIED TO THE PHOTOCELLS ARE AS FOLLOWS:

- if activated while the door is CLOSING => REVERSES THE OPENING MOVEMENT;
- if activated while the door is OPENING => INTERRUPTS THE OPENING MOVEMENT for the time that it is held. Upon being RELEASED the door continues to open.

The latter behavior of the door depends on the setting of the control panel.

FOR TOUCH (ACG3015) MECHANICAL SAFETY EDGES WITH CONTACT N.C.

- Connect an 8.2 KD resistor in series to the N.C. contact of the safety edge (without this
 resistor the system will not work. See the table "IN CASE OF DIFFICULTY") or remove the
 jumper from the TOUCH safety edge circuit to enable the resistor.
- Connect the safety edge N.C. contact to the feed terminals EDGE TX for the transmitter or EDGE RX for the receiver.
- Place the jumper JP5 on the receiver in the following position to enable the safety edge:



- Place the jumper JP1 on the transmitter in the following position to enable the safety edge:



FOR RESISTIVE SAFETY EDGES WITH N.O. CONTACT

- Connect in parallel to the N.O. contact of the safety edge a resistance of 8,2 KQ (without this
 resistance the series will not work and the alarm will come on see table "TROUBLESHOOTING")
- Connect the safety edge N.O. contact to the feed terminals EDGE TX for the transmitter or EDGE RX for the receiver.
- -Place the jumper JP5 on the receiver in the following position to enable the safety edge:



Place the jumper JP1 on the transmitter in the following position to enable the safety edge:

ON

PERFORM A SYSTEM CHECK ON THE SAFETY EDGES AS INDICATED ABOVE.

TECHNICAL SPECIFICATIONS

NOVA WIRELESS RECEIVER

- ADJUSTABLE RANGE

- POWER 12÷24 V ac/dc (Check compatibility of power supplied by the electric panel)

 - MAXIMUM ABSORPTION
 110 mA

 - RELAY RANGE
 1A - 30 V dc

 - RELAY STROKE TIME
 120 mS

RED LED on => RECEIVER aligned.

(N.B. when adjusted it turns off when an object is placed in front of it)

NOVA WIRELESS BATTERY OPERATED TRANSMITTER

- POWER alkaline batteries 2 x AA 1,5V(>2,7Ah)

- POWER ABSORBED 3 μA
- BATTERY LIFE 4 about 3 years
- BATTERY LIFE WITH JP2 SET ON 15 m RANGE 4 years
- BATTERY LIFE WITH JP2 SET ON 30 m RANGE 3 years

- GREEN LED on => the transmitter is aligned (this signal

is only active for the first 10 seconds after the batteries have been inserted). 15 o 30 m (in good weather conditions)

N.B.: Range may be reduced in bad weather conditions such as fog, rain, dust, etc.

NOVA WIRELESS EXTERNALLY POWERED TRANSMITTER

- POWER 12÷24 V ac/dc (Check compatibility of power supplied by the electric panel)

- MAXIMUM ABSORPTION 20 mA - GREEN LED always on

- ADJUSTABLE RANGE 15 o 30 m (in good weather conditions)

N.B.: Range may be reduced in bad weather

N.B.: Range may be reduced in bad weath conditions such as fog, rain, dust, etc.

COMMON TECHNICAL SPECIFICATIONS

- INFRARED SIGNAL WAVELENGTH 890 nm
- OPERATING TEMPERATURE -20°C ÷ +60°C
- CONTAINER exterior in polycarbonate

- PROTECTION LEVEL IP44
- DIMENSIONS 150x45x41
- WEIGHT 0,300 kg