

WINDY HZ ACCEL



EN - Installer instructions

Ref. 5070670A



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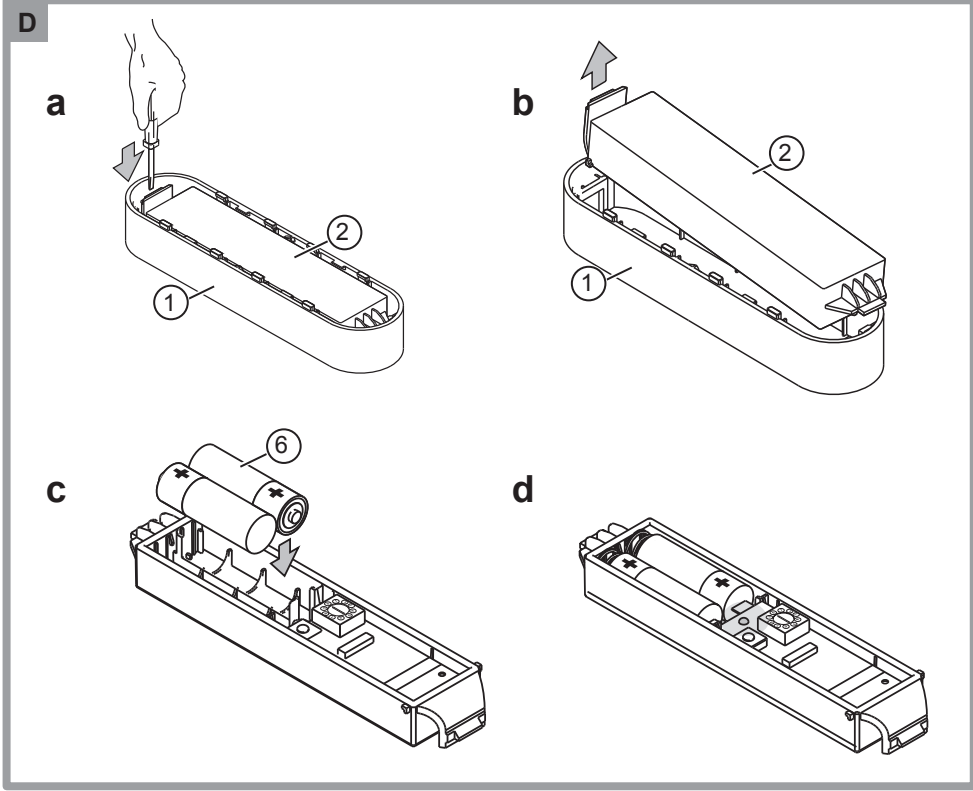
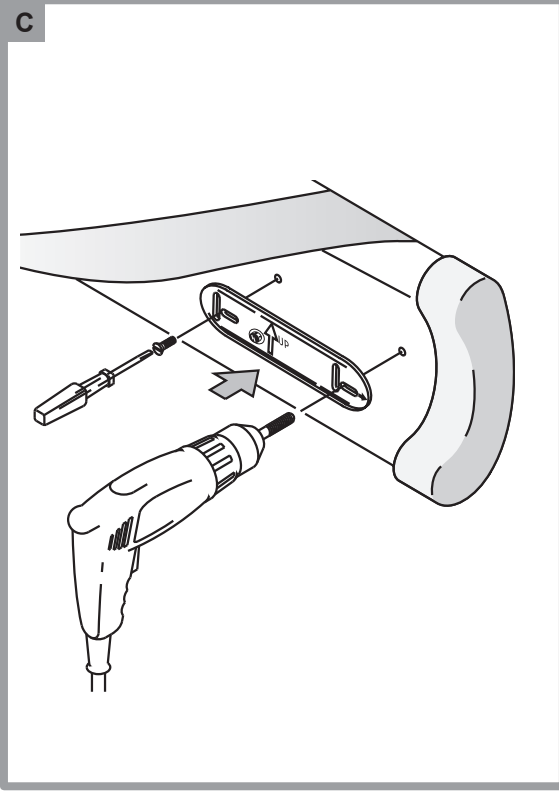
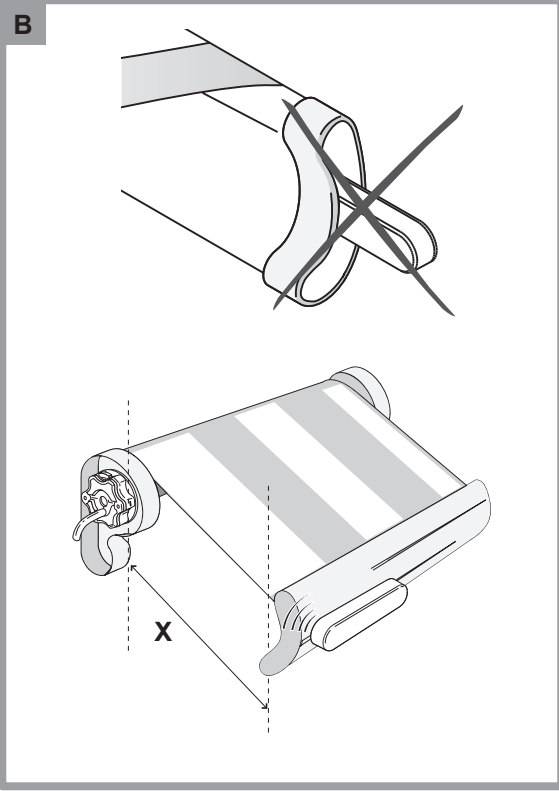
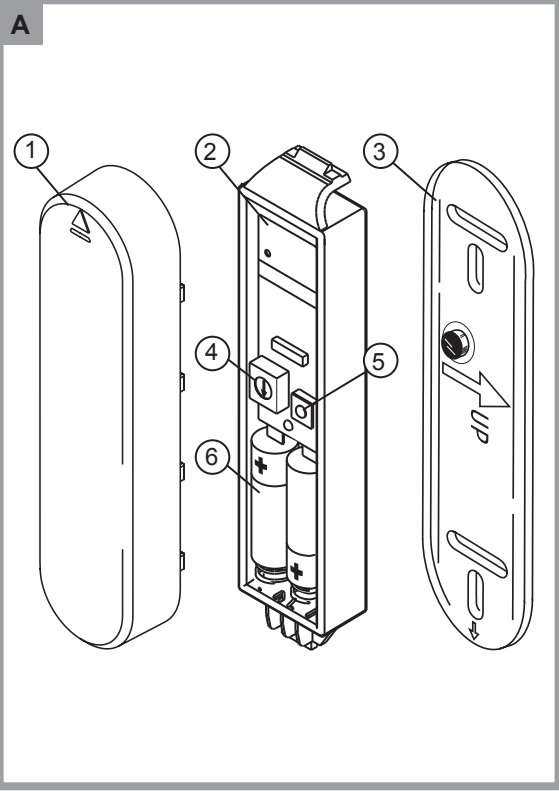
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EN - Hereby, Simu, declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A Declaration of Conformity is available at the web address [www.Simu.com/ce](http://www.Simu.com/ce).



Patents pending for some countries (e.g. : us)



**EN** These instructions describe how to install, commission and operate this product.

The Windy Hz Accel is a cordless, independent, three-dimensional motion sensor. It enables the awning to be raised automatically when it is being shaken by the wind. The detection of shaking corresponds to a sensitivity threshold.

The Windy Hz Accel has been designed for terrace awnings with arms, such as folding arms cassette or semi-cassette awnings. The Windy Hz Accel is compatible with Hz motors, Hz remote controls and Hz sensors from Simu.

The sensor does not protect the awning against sudden squalls; keep the awning closed if there is a risk of such a meteorological phenomenon.

1. Safety

1.1 Safety and Responsibility

This Simu product must be installed by a person with professional knowledge of motorisation and home automation, for whom these instructions are intended.

Moreover, the installer must comply with the current standards and legislation in the country in which the product is being installed, and inform his customers of the usage and maintenance conditions relevant to the product.

Any use outside the sphere of application specified by Simu is forbidden. This invalidates the warranty and discharges Simu of all liability, as does any failure to comply with the instructions given herein.

Never begin installing without first checking the compatibility of this product with the associated equipment and accessories.

2.2. Specific safety advice

To prevent damaging the product:

- 1) Avoid impacts!
- 2) Do not drop it!
- 3) Do not submerge it.
- 4) Do not use abrasive products or solvents to clean the product.
- 5) Do not clean it using a water spray or high pressure cleaning method.

ⓘ Ensure that the sensor is kept clean and regularly check it is operating correctly.

This sensor does not protect the awning in the event of strong gusts of wind.

If there is a risk of this kind of weather, ensure that the awning remain closed.

2. Methods of adjustment

2.1 1 Predefined threshold adjustment method

Predefined threshold adjustment sets the detection of movement to one of the threshold values pre-set in the potentiometer. Each value is a threshold of sensitivity to shaking:

- threshold 1 = high sensitivity to shaking: low intensity shaking will cause the awning to close;
- threshold 9 = low sensitivity to shaking: high intensity shaking will cause the awning to close.

Threshold 2 provides sensitivity to shaking under usual conditions. When leaving the factory, the Windy Hz Accel is set to threshold 2.

2.2 Personalized threshold adjustment method

Personalized threshold adjustment will allow the detection of shaking at a sensitivity threshold set by the installer. The awning is shaken manually until it rises automatically: the intensity of the shaking caused is recorded by the sensor. If the awning is not shaken before it rises automatically, the sensor switches automatically to its original configuration: the Windy Hz Accel is set to threshold 2 value.

Once the threshold has been set, the sensor switches to Demonstration mode for the first two cycles following adjustment. This mode enables the selected setting to be modified easily. Simply pressing the STOP button stops the awning rising and enables the threshold of sensitivity to be modified by shaking the awning again manually.

3. The Windy Hz Accel in details

☞ See illustration A

1. Casing
2. Sensor
3. Support
4. Potentiometer
5. PROG button
6. AAA (LR03) 1.5V alkaline batteries

4. Installation

4.1 Installation recommendations

☞ See illustration B

The Windy Hz Accel has to be attached on the load bar, on the same end of the awning as the motor is installed. Shaking is more easily detected.

⚠ The Windy Hz Accel must never be enclosed in the load bar.

⚠ The Windy Hz Accel only works when the sensor (2) is secured to the bracket (3) and the settings are done.

⚠ The sensor's radio range is X = 20 m.  
Powerful local transmitter equipment (e.g. cordless headphones) with a transmission frequency identical to the Windy Hz Accel can affect its function.

4.2 Premounting the support

☞ See illustrations C and E

The support (3) may be attached, without washers, using 2 domed cylindrical-head (4-mm-diameter) #8 screws (not supplied), 2 countersunk-head screws (4 mm in diameter) #8 (not supplied), 2 pop rivets (4 mm in diameter) 5/32" (not supplied) or 2 Simu fixing accessories (not supplied).

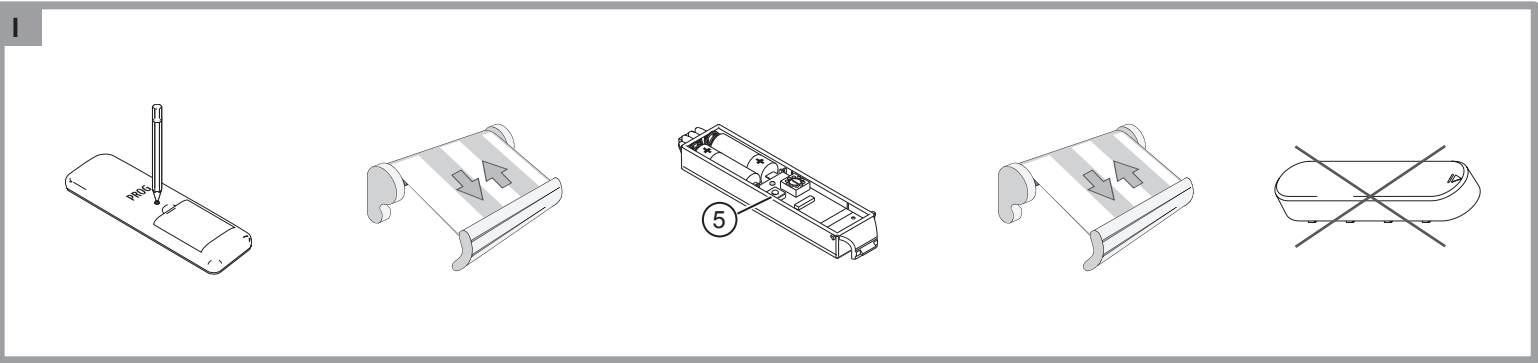
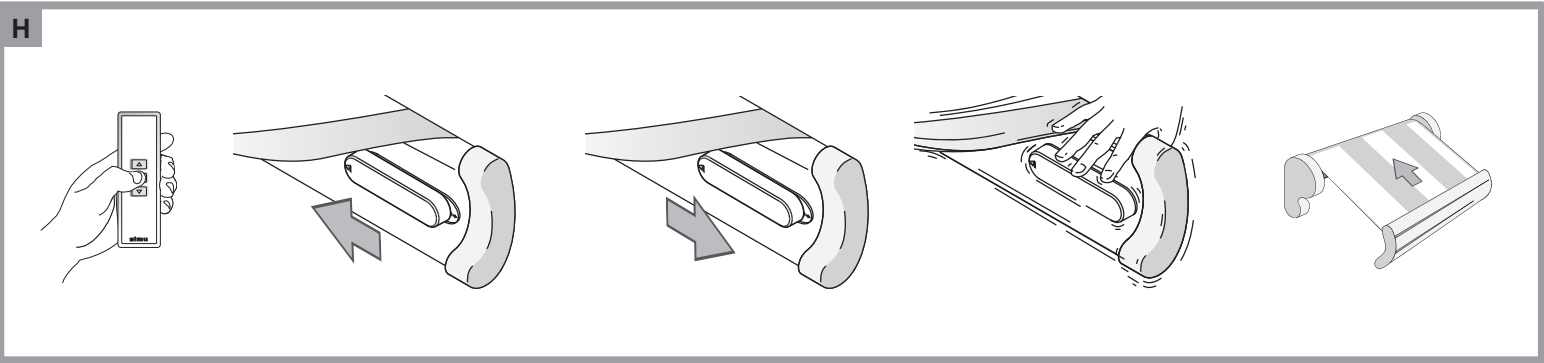
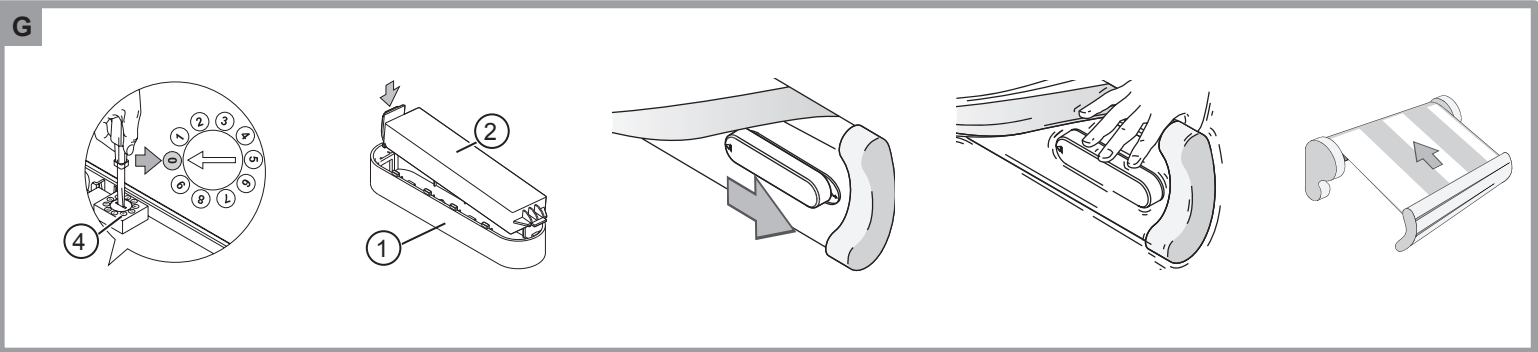
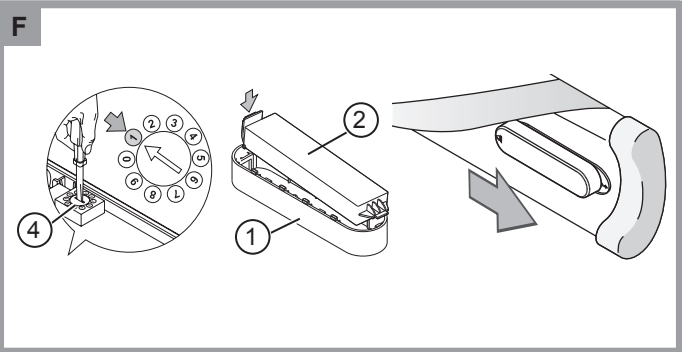
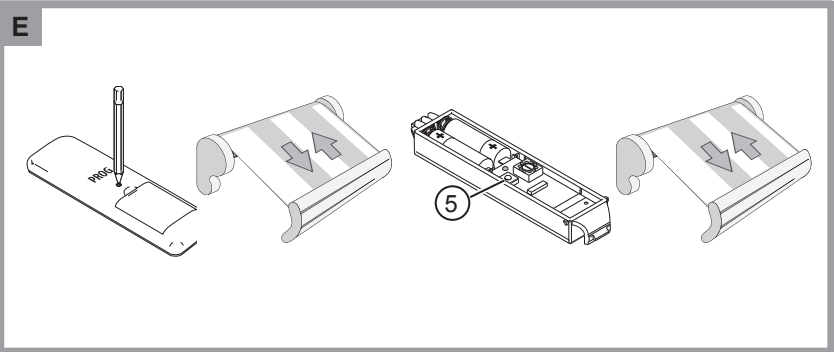
- Position the support (3) on the inside surface of the load bar.
- Check that the position chosen does not prevent the awning from closing and does not damage the sensor.
- Drill two holes into the load bar to match the holes in the support and to suit the selected method of fixing (see "Technical data").
- Fix the support using the selected fixing accessories: the arrow with "UP" engraved into the support must point upwards.

4.3 Installing the batteries

☞ See illustration D

⚠ Never use rechargeable batteries to power the Windy Hz Accel sensor.

- Remove the sensor (2) from its casing (1) using a flat screwdriver.
- Insert the AAA batteries provided (6) into the sensor, following the polarity indicated: the LED will come on for 1 sec to confirm that the batteries have been properly inserted.



EN 5. Commissioning

5.1 Specific safety recommendations

⚠ Once the awning and Windy Hz Accel have been commissioned, make sure that activation of Windy Hz Accel causes the awning to be raised.

5.2 Recording of the sensor

- ☞ See illustration E
- Take a remote control that is already programmed in the memory of the motor.
  - Press the PROG button on the remote control until the awning does a short up and down movement: the motor is in programming mode.
  - Press the PROG button (5) on the Windy Hz Accel sensor until the awning does a short up and down movement: the Windy Hz Accel sensor is programmed in the memory of the motor.

5.3 Pre-defined threshold adjustment method

- ☞ See illustration F
- Set the potentiometer (4) to the desired threshold using a flat screwdriver: 1 = high sensitivity to shaking; 9 = low sensitivity to shaking
  - Insert the sensor (2) into the casing (1).
  - Slide the sensor (2) onto the support (3) until the end stop: the sensor is set.
  - Check the adjustment and modify it in the event of incorrect sensitivity to shaking.

5.4 Personalized threshold adjustment method

- ☞ See illustration H
- 5.4.1 Adjustment to «Personalized threshold»
- ☞ See illustration G
- Set the potentiometer (4) to 0 using a flat screwdriver.
  - Insert the sensor (2) into the casing (1).
  - Slide the sensor (2) onto the support (3) until the end stop: the sensor is in «Personalized threshold» mode.

To Check the adjustment :

- Shake the awning to simulate the maximum level of vibration permitted, until the awning rises automatically: the sensor is set and it switches to demonstration mode.
- Lower the awning then gently shake it to simulate the effect of wind; this should cause the awning to rise:
  - If the awning reacts satisfactorily, this means the sensor is set correctly,
  - If the awning does not react satisfactorily, stop the rising of the awning by pressing the STOP button and go to the next step «Changing the threshold adjustment».

5.4.2 Changing the threshold adjustment

- Lower the awning.
  - Release the casing and sensor assembly from the support (3) then wait for 2 secs.
  - Engage the casing and sensor assembly on the support (3): the sensor is in «Personalized threshold» mode.
- ⚠ If the casing and sensor assembly is disengaged from the support for more than 4 seconds, re-engage it and then repeat the two previous steps.
- Shake the awning to simulate the maximum level of desired vibration, until the awning rises automatically: the sensor is set.

6. Operation

6.1 When the wind comes up

When the wind comes up, the awning will start to vibrate. If the vibration is greater than the set threshold, the awning will rise automatically:

ⓘ It is impossible to prevent the awning from being raised and to lower it until at least 30 secs after it has been raised.

6.2 When the wind dies down

When the wind dies down, the awning can be lowered using the remote control after a time lag of 30 secs.

If the Windy Hz Accel sensor is linked to a sun sensor, the awning can be lowered using the remote control after a time lag of 30 secs.

⚠ When the day is sunny and windy, deactivate the 'Sun' function so as to protect the awning.

7. Repairs

7.1 Replacing of the batteries

- ☞ See illustration D
- ⚠ Never use rechargeable batteries to power the Windy Hz Accel sensor.
- The specific adjustments of the sensor are retained in the sensor's memory when batteries are changed.
- Withdraw the sensor (2) from the support (3).
  - Remove the sensor (2) from its casing (1) using a flat screwdriver.
  - Replace the AAA alkaline batteries (6) with batteries of identical characteristics according to the polarity indicated: the LED will come on for 1 sec to confirm that the batteries have been correctly inserted.
  - Replace the sensor (2) in its casing (1) and then on the support (3).

7.2 Deleting the sensor

- ☞ See illustration I
- Follow the 'Recording the sensor' procedure to delete the sensor from the motor memory.

7.3 Disabling all the sensors.

- ⚠ Resetting disables all the sensors (sun, wind, etc) associated with the awning motor.
- Take a remote control recorded in the motor.
  - Give a long press on the PROG button on the remote control: the motor is in programming mode and performs a short up and down movement.
  - Give a long press (7 seconds) on the PROG key of a sensor associated with the awning motor: the awning makes two short up and down movements; all sensors are deleted in the motor's memory.

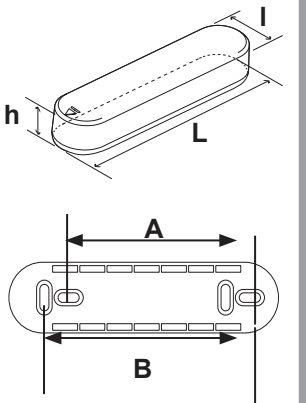
7.4 Questions about the Windy Hz Accel ?

| Observations                                                     | Possible causes                                                                         | Solutions                                                                                                                                            |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| The LED does not come on after the batteries have been inserted. | The batteries are incorrectly fitted.                                                   | Check the direction in which the batteries are inserted into the sensor.                                                                             |
| The awning does not rise automatically when the wind comes up.   | The threshold is incorrectly set.<br>The threshold is incorrectly set.                  | Modify the threshold.<br>Modify the threshold.                                                                                                       |
|                                                                  | Radio reception is bad because there is a metal obstacle preventing radio transmission. | Check that there are no metal items near the sensor.                                                                                                 |
|                                                                  | The sensor or the motor is out of order.                                                | Shake the awning to raise it back up. If this does not happen, replace the batteries. If the awning still does not move, check the sensor and motor. |
| The awning rises every 30 mins and the LED is on all the time.   | The batteries are low.                                                                  | Replace the batteries with batteries of identical characteristics.                                                                                   |

| Observations                   | Possible causes                                                | Solutions                                                                                                                     |
|--------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| The awning rises once an hour. | The sensor is incorrectly inserted in the support.             | Engage the sensor into the support.                                                                                           |
|                                | The radio link between the sensor and the motor does not work. | Replace the batteries with ones having exactly the same characteristics. If the awning still does not rise, check the sensor. |
|                                | The sensor is not operating.                                   | Replace the batteries with ones having exactly the same characteristics. If the awning continues to rise, replace the sensor. |

7.5 Technical data

Power supply: 2 AAA alkaline batteries  
Size: 25 x 38 x 153 mm (h x l x L)  
Space between the oblong:



A = 93,5 mm      B = 120,5 mm

**FC** This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:  
- this device may not cause harmful interference, and  
- this device must accept any interference received, including interference that may cause undesired operation.

Warning !  
Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.