

# ENGLISH

Instructions translated from Italian

## 1 - Warnings

- Caution: the EP2MOW devices do not constitute safety devices. They are only auxiliary safety devices. Although constructed for maximum reliability, in extreme conditions they may malfunction or fail, and this may not be immediately evident. For this reason, and as a matter of good practice, observe the following warnings: - Transit can only occur if the gate or garage door is fully open and at a standstill. - TRANSIT IS STRICTLY FORBIDDEN while the gate or garage door is closing or is about to close. - If you notice any sign of malfunction, immediately shut off power to the system and use the manual mode only (refer to the automation's instruction manual). Immediately contact a person qualified to respect and repair the device.
- Nice declines all liability for damage or injury resulting from improper use of the product and any other use not specified in this manual.
- All packaging materials must be disposed of in accordance with local regulations.
- The device must not be immersed in water or any other liquid substance. If liquid substances penetrate inside the device, disconnect the power supply immediately and contact the Nice customer service, using the device in these conditions could be dangerous.
- Do not keep the device near heat sources or expose it to open flames; these actions could damage the device and cause malfunctions, fire hazards or other dangers.

## 2 - Description and intended use

The EP2MOW devices are presence sensors for gate automations (type D according to EN 12453 standard); they allow for detecting obstacles along the optical axis between the transmitter (TX) and the receiver (RX); each of them is powered by a CR123 lithium battery. The EP2MOW devices are equipped with the Solemyo Air Net System radio technology of the Nice range, which allows for communicating with the control unit in wireless mode. A single control unit can be used to connect multiple pairs of EP2MOW photocells, and each pair can be associated with a desired function among those available. This is achieved by the control unit with which they must be paired (contact the IBW radio interface of the Nice range (also refer to the respective instruction manual).

## 3 - Operating principle

When its battery is inserted, the EP2MOW device begins searching for an IBW radio interface to link up with (see **Table 2** "Search for radio interface"); - If it finds a radio interface with which it is associated previously, it enters the **Standby** mode. - If it finds a radio interface in the listen status, it switches to the **Programming** mode. In this case, it maintains this mode until the entire system has been acquired before entering the **Standby** mode.

## 4 - Addressing and programming

For the control unit to correctly detect the EP2MOW devices, these must be addressed through appropriate jumpers according to **Table 1** and depending on how they are positioned in the system (**Figures 7, 8, 9**); to be carried out on both the TX and RX in the same manner.

Each pair of photocells must have a different function than that assigned to other pairs of photocells.

Refer to the instruction manual of the IBW and of the control unit to carry out all the activities related to programming and testing of the EP2MOW.

## 5 - Installation

**Reception can be influenced by several factors: the position of the devices and their proximity to systems lacking interference suppressors; other transmitters within the same frequency ranges; weather conditions. Do not mount the universal receiver near the ground or large-size metal objects. The maximum length of any connection cables must not exceed 3 m. Contact the Nice technical assistance service in case of malfunctions.**

- Remove the front glass, detach the upper casing of the photocell then the internal casing (**Phase 01 - Fig. 1**).
- Choose the place and position of installation: height between 40 cm and 60 cm above the ground. The TX and RX elements must be placed on opposite sides and pointing to one another (the maximum allowed misalignment is 5°); for improved radio transmission/reception, avoid positioning them inside niches.
- Perform the addressing procedure: position the jumpers depending on the desired function, see **Table 1**.
- If the system includes them, install the other wireless devices.

## 6 - Troubleshooting

**a)** Reset the IBW or make sure that it does not contain stored devices: - press button **P** (**Fig. 4**) until the red LED lights up steady and then release the button - confirm with a single touch of button **P** - wait for the LED to emit five red flashes to confirm the reset

## 7 - Maintenance

**a)** Press button **P** until the green LED lights up steady (listen status).  
**b)** Insert the battery in every EP2MOW, a beep of the IBW will confirm its recognition; the EP2MOW will enter the programming phase signalling (its status).  
**c)** In this phase it is possible to acquire the other relevant wireless devices (flashing or sensitive edges): ensure that they do not contain a previously stored IBW then reset the device (consult the IBW instruction manual).

**a)** Confirm the memorization of the system with a single touch of button **P** of the IBW; the LEDs of each EP2MOW will switch off if acquired correctly.  
**b)** A periodic beep of the IBW will signal the need to scan the BlueBus devices (from the control unit or Overview programme).

## 8 - Replacement

Warning: - For an average use of roughly 10 daily manoeuvres, the batteries should be replaced annually.

The TX and RX batteries are of the CR123 lithium type. To access the battery compartment, refer to **Fig. 1**; observe the following warnings when replacing the batteries: - insert the new batteries by matching the polarities; - when inserting the batteries make sure that the LED lights flash and check their meaning in the manual of the automation to which the EP2MOW devices are connected.

## 9 - Disposal

This product is an integral part of the automation system and must therefore be disposed of together with it, in the same manner described in the automation's instruction manual.

## 10 - Technical specifications

**Please note:** the technical features refer to an ambient temperature of 20°C. Nice S.p.A. reserves the right to modify its products without altering their intended use and essential functions.

- Power supply:** 3V DC, with CR123 lithium battery. ■ **Battery life:** about one year with the usual frequency of use.
- Radio communication:** two-way on 7 channels in the [863.5 MHz - 869.8 MHz] band. ■ **Radio protocol:** high-security; compatible with the Solemyo Air Net System radio technology of the Nice range. ■ **Effective range:** 20 m. ■ **Maximum radio range (in optimal conditions):** 40 m. ■ **Protection rating:** IP 44. ■ **Operating temperature:** -20°C ... +55°C. ■ **Dimensions:** 105 x 50 x 40 mm. ■ **Weight:** 200 g (TX + RX).

**(1) Note:** - The range of receiver-transmitter devices may be affected by other devices operating in the vicinity and at the same frequency (e.g. wireless headsets, alarm systems, etc.), which can cause interferences in the system. In the event of continual and strong interference, the manufacturer cannot guarantee the effective range of its devices.

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**g)** The beep terminates at the end of the scan; then with a single touch of button **P** of the IBW activate the "system test" procedure.  
**h)** In the test mode, verify the correct operation of the EP2MOW with the optical alignment of the TX and RX devices on the basis of the signals emitted during the manoeuvre (see **Table 2**); moreover, verify the coverage signal: if it is weak, use the rotating head containing the optical system to optimise the alignment. If this situation persists throughout the entire manoeuvre, the position of the antennas must be optimised (in particular of the IBW - consult the relevant manual).  
**i)** Exit the test mode with a single touch of button **P** of the IBW.

**6.** Fasten all the elements permanently (**Phase 02 - Fig. 1**) and verify the alignment between TX and RX (**Fig. 5**).

**7.** Close the EP2MOW device again (**Phase 03 - Fig. 1**).

**8 - Testing**

**Caution:** after adding or replacing any photocells, the entire automation system must be re-tested according to the instructions provided in the respective manuals.

**Verification of optical alignment:** run the "operation test" from the IBW, consult the respective manual. The optical alignment between TX and RX can also be verified on the basis of the signals emitted during the manoeuvre; see **Table 2**.

**Verification of radio coverage:** verify the level of radio reception of the photocells; consult the IBW instruction manual in addition to the TX and RX LED signals described in **Table 2**; radio coverage should be checked throughout the automation's manoeuvre.

**Verification of correct obstacle detection:** the check must be performed by means of a 700x300x200 mm test parallelepiped with 3 matt white sides and 3 glossy white or mirrored sides, in accordance with the EN 12445 standard (**Fig. 6**).

**2 - Maintenance**

Service the photocells at least every 6 months as follows:

**01.** Unlock the motor as described in the instruction manual to prevent involuntary activation of the automation system during maintenance.

**02.** Check for damp, oxidation and foreign bodies (such as insects), and remove them if present. In case of doubts, replace the photocell.

**03.** Clean the external housing - specifically the lenses and glass panels - with a slightly damp, soft cloth. Do not use alcohol, benzene, acetone or other cleaning products; these can affect the polished surfaces and compromise the operation of the photocells.

**04.** Perform the operational test described in the section, "Testing".

**05.** The product is designed to work for at least 10 years under normal conditions; after this time, more frequent maintenance is recommended.

**06.** Check for the fat battery, most frequent; in such case, the battery must be replaced (**Chap. 8 - Fig. 1**).

**8 - Battery replacement**

Warning: - For an average use of roughly 10 daily manoeuvres, the batteries should be replaced annually.

The TX and RX batteries are of the CR123 lithium type. To access the battery compartment, refer to **Fig. 1**; observe the following warnings when replacing the batteries: - insert the new batteries by matching the polarities; - when inserting the batteries make sure that the LED lights flash and check their meaning in the manual of the automation to which the EP2MOW devices are connected.

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**2.** Premere il tasto P dell'IBW fino all'accensione del led verde fisso (stato di ascolto).

**d)** Inserire la batteria ad ogni EP2MOW, un beep dell'IBW ne confermerà il riconoscimento; EP2MOW entrerà in fase di programmazione segnalando (leggendo) lo stato.

**e)** In questa fase è possibile acquisire gli altri dispositivi wireless previsti (a tale scopo, è necessario assicurarsi che non contenga un IBW memorizzato in precedenza e quindi, eseguire un reset del dispositivo vedendo manuale d'istruzione IBW).

**f)** Confermare la memorizzazione dell'impianto con un click sul tasto P dell'IBW; i led di ogni EP2MOW si spegneranno se acquisite correttamente.

**01.** Un beep periodico dell'IBW ricorda di effettuare una scansione dei dispositivi BlueBus (dalla centrale di comando o dal programmatore Overview).

**a)** Al termine della scansione il beep termina, quindi eseguire una manovra e con un click sul tasto P dell'IBW attivare la procedura "di test impianto".

**h)** In modalità test, verificare il corretto funzionamento delle EP2MOW con l'allineamento ottico tra TX e RX in base alle segnalazioni emesse durante la manovra (vedere **Tabella 2**); inoltre, verificare la copertura di copertura: se è scarsa, sfruttare la testina ruotante contenente il sistema ottico per ottimizzare l'allineamento. In caso persista per l'intera manovra, è necessario ottimizzare la posizione delle antenne (in particolare di IBW - vedere rispettivo manuale).

**i)** Usare dalla modalità di test con un click sul tasto P dell'IBW.

**06.** Fissare tutto definitivamente (**fase 02 - fig. 1**) verificando l'allineamento tra TX e RX (**fig. 5**).

**07.** Richiudere EP2MOW (**fase 03 - fig. 1**).

**6 - Collaudo**

**Attenzione:** dopo aver aggiunto o sostituito delle fotocelle è necessario eseguire nuovamente il collaudo dell'intera automazione secondo quanto previsto nei rispettivi manuali.

**Verifica dell'allineamento ottico:** eseguire la procedura di "test" verificando l'allineamento ottico tra TX e RX in base alle segnalazioni emesse durante la manovra, vedere **Tabella 2**.



