

ENGLISH

1 - Safety and installation instructions

CAUTION! IMPORTANT INSTRUCTIONS: for personal safety it is important to read and follow these instructions, and store them in a safe place. In case of doubt, contact the Nice Support Service. Incorrect installation is a safety hazard and can lead to faulty operation. Installation, hookups, programming and maintenance shall be performed by qualified technicians, in compliance with all applicable laws, standards, local regulations and these instructions. ■ The transmitter component (TX) and the receiver component (RX) on the device shall be permanently installed opposite one another on two vertical and parallel walls. The walls shall be solid so they do not transmit any vibrations to the photocells. ■ The photocells shall be installed in a position that protects them from accidental impacts and that ensures easy access for maintenance. ■ The photocells must be connected only to a NICE control unit (or interface) equipped with "BlueBus" technology. ■ The photocell must operate only when an object is placed between the TX and the RX. Operation of the photocell shall be limited to the range of safety against malfunction, the photocells shall be connected to a command control unit (or interface) equipped with the "phototest" function. ■ The product is protected against water and dust; it is therefore suited for normal outdoor applications. It is however not suited for use in heavily saline, acidic or potentially explosive atmospheres. Do not install the equipment in areas subject to flooding or water stagnation. ■ The electrical cables must enter the photocell through one of the holes located on the bottom of its mount and must be inserted from below. This is so as to prevent water dripping inside the product.

2 - Product description and intended use

This device is a photocell, namely a type-D presence detector, pursuant to the EN 12453 standard. It is part of the Era-EP series, and is intended to be used on automation systems for gates, doors, garage doors and similar installations.

Any use other than that described is to be considered improper and prohibited! The device uses "BlueBus" technology, which enables the connection and communication among the photocells and the command control unit (or interface) with two wires. This is a "parallel" connection. Each pair of photocells shall be assigned a specific task in the automation by the insertion of jumpers. The product may be used together with "FT210B" series devices, equipped with the "bluebus" technology (see fig. 7 and 8), which enable the resolution of problem of electric connection with the sensitive edges installed on moving door leafs.

3 - Installation and connections

VERY IMPORTANT! So that there is optical alignment between the TX and the RX, make sure to check, prior to installation, that the walls where the photocells are to be mounted are parallel to one another. If the walls are not parallel, it is suggested that adjustable photocells (e.g., EPMAB) be used, as the alignment of these photocells cannot be adjusted once their installation has been completed.

■ Prior to installation read the warnings in Chapter 1 and the data in Chapter 8. ■ **02.** Disassemble and prepare the photocells (fig. 1, 2, 3, 4, 5 and 6). ■ **03.** Consult the instruction manual for your control unit (or interface) (or fig. 7, 8, 9, 10 and 11) to choose the detection function and the corresponding parameters. In case of doubt, consult the manufacturer. ■ **04.** Clean the photocells and, if necessary, the lenses and glass plates – with a soft, slightly damp cloth. Do not use alcohol, benzene, abrasive or other cleaning products; these can affect the polished surfaces and compromise the operation of the photocells; ■ **04.** Run the tests indicated in "Tests"; ■ **05.** The product is designed to work for at least 10 years in normal conditions; we recommend increasing the frequency of maintenance thereafter.

7 - Scrapping
This product is an integral part of the automation and must therefore be scrapped together with the entire system in the same way as indicated in the automation's instruction manual.

8 - Technical specifications

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

Type of product: presence detector for automated systems. ■ **Presence:** detection of the presence of objects in the area of the photocells. Note that the photocells are to be installed in pairs (fig. 1, 2, 3, 4, 5 and 6). ■ **Technology adopted:** direct optical interconnection between TX and RX components as indicated in the diagram (fig. 7, 8 and 9).

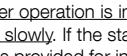
Detection capability: to detect the presence of objects in the area of the photocells. ■ **Communication:** the photocells are to be connected to a command control unit (or interface) with two wires. ■ **Power supply / output:** the device may be connected only to a control unit (or interface) equipped with "BlueBus" technology. The electrical power is drawn from this device, where the output signals are sent. ■ **Maximum absorbed power:** "BlueBus" unit ■ **TX beam angle:** 20° ± 25%. ■ **RX field angle:** 8° ± 25%. ■ **Range:** useful range 15m; maximum range 30m. The range may be reduced by 50% in poor atmospheric conditions. ■ **Detector:** photoelectric sensor with modular IR beam. ■ **Power supply / output:** the device may be connected only to a control unit (or interface) equipped with "BlueBus" technology. The electrical power is drawn from this device, where the output signals are sent. ■ **Dimensions (single component):** weight (sum of two components): 50 x 80(h) x 31 mm / 480 g

Photocells used as the "automat-

opening control device" – If the photocells are set up for this function (check in point 03), complete their installation by cutting the electrical bridge between points "A" on the TX and RX circuit cards (fig. 15-16-17). ■ **10.** Install the TX and RX circuit boards (fig. 15-16-17). ■ **11.** Power the automation and perform the "BlueBus" device installation procedure, found in the control unit (or interface) instruction manual. Note – If this photocell is going to be replaced by a previous existing photocell, the jumpers must be positioned in the same manner as before. In this case the device's installation procedure is not required. ■ **12.** Perform the test procedure as described in Chapter 4. ■ **13.** Complete the installation as shown in fig. 21, 22, 23.

9 - CE Declaration of Conformity

Nice S.p.A. hereby declares that the products: **EPMAB** comply with the essential requirements and other pertinent provisions defined by Directive 2004/108/EC. The CE declaration of conformity can be viewed and printed at the website www.nice-service.com, or may be requested directly from Nice S.p.A.

 Mr. Mauro Sordini (Chief Executive Officer)

ITALIANO

Istruzioni originali e complete

1 - Avvertenze per la sicurezza e l'installazione

ATTENZIONE! ISTRUZIONI IMPORTANTI: per la sicurezza delle persone è importante leggere, rispettare e conservare queste istruzioni. In caso di dubbi, chiedere chiarimenti al Servizio Assistenza Nice. L'installazione non corretta pregiudica la sicurezza e provoca guasti. Tutte le operazioni di installazione, collegamento, programmazione e manutenzione devono essere effettuate esclusivamente da personale tecnico qualificato secondo le norme e le normative, i regolamenti locali e le presenti istruzioni. ■ L'elemento trasmettitore (TX) e l'elemento ricevitore (RX) del dispositivo devono essere posizionati su due muri verticali paralleli (o un interfacce) con una distanza di circa 8-12 Vdc. Se la tensione è corretta, è probabile che la fotocella sia guasta.

Caution! – After having added, removed or replaced any automation photocells, the entire automation system must be tested, referring to the manuals for each of the different devices.

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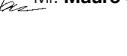
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 Mr. Mauro Sordini (Chief Executive Officer)

10 - Manutenzione
Eseguire la manutenzione delle fotocelle almeno ogni 6 mesi, effettuando le seguenti operazioni: **1**) sbloccare il

binario, che si desidera assegnare alla coppia di fotocelle; annotare le loro sigle identificative (es. "FOTO 2"). Per usare il comando automatico della manovra di apertura, scegliere la funzione "A" sulle schede elettriche TX e RX. ■ **11.** Power the automation and perform the "BlueBus" device installation procedure, found in the control unit (or interface) instruction manual. Note – If this photocell is going to be replaced by a previous existing photocell, the jumpers must be positioned in the same manner as before. In this case the device's installation procedure is not required. ■ **12.** Perform the test procedure as described in Chapter 4. ■ **13.** Complete the installation as shown in fig. 21, 22, 23.

14 - Montaggio
Per fare in modo che le pareti su cui sono fissate le fotocelle siano parallele, si deve utilizzare un binario regolabile (fig. 13-b) soltanto alla fine del collaudo (capitolo 4). ■ **15.** Cut the electrical bridge "A" on the TX and RX wiring diagram (fig. 15-16-17). ■ **16.** Tagliare il ponte elettrico "A" sulla scheda elettrica del TX e RX (fig. 15-16-17). ■ **17.** Couper le lames dans la partie de la carte électronique TX et RX (fig. 15-16-17). ■ **18.** Couper le pont électrique "A" sur la carte électrique TX et RX (fig. 15-16-17). ■ **19.** Dopo aver aperto la porta, pulire la vetrina della fotocella con uno straccio umido (fig. 19). ■ **20.** Check the alignment of the photocells (fig. 20).

21 - Collegamento
Per fare in modo che le pareti su cui sono fissate le fotocelle siano parallele, si deve utilizzare un binario regolabile (fig. 13-b) soltanto alla fine del collaudo (capitolo 4). ■ **22.** Collegare le fotocelle (fig. 21). ■ **23.** Collegare il cavo di alimentazione (fig. 22). ■ **24.** Collegare il cavo di comando (fig. 23). ■ **25.** Collegare il cavo di protezione (fig. 24). ■ **26.** Collegare il cavo di terra (fig. 25). ■ **27.** Collegare il cavo di illuminazione (fig. 26).

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Per fare in modo che le pareti su cui sono fissate le fotocelle siano parallele, si deve utilizzare un binario regolabile (fig. 13-b) soltanto alla fine del collaudo (capitolo 4). ■ **29.** Collegare le fotocelle (fig. 21). ■ **30.** Collegare il cavo di alimentazione (fig. 22). ■ **31.** Collegare il cavo di comando (fig. 23). ■ **32.** Collegare il cavo di protezione (fig. 24). ■ **33.** Collegare il cavo di terra (fig. 25). ■ **34.** Collegare il cavo di illuminazione (fig. 26).

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15 - Instructions and warnings for installation and use

EN - Instructions and warnings for installation and use

IT - Istruzioni ed avvertenze per l'installazione e l'uso

FR - Instructions et avertissements pour l'installation et l'utilisation

DE - Installierungs- und Gebrauchsanleitungen und Hinweise

ES - Instrucciones y advertencias para la instalación y el uso

NL - Aanwijzingen en aanbevelingen voor installatie en gebruik

PL - Instrukcje i ostrzeżenia do instalacji i użytkowania

NL - Aanwijzingen en aanbevelingen voor installatie en gebruik

Nice SpA
Cordenzo Italy
info.niceforyou.com
www.niceforyou.com

Nice

IS0290A01MM_24-02-2016

6 mois, en procédant comme suit: **1:** débrayer le moteur comme décrit dans sa notice d'instructions pour éviter toute manipulation involontaire de l'automatisation pendant les travaux d'entretien; **2:** vérifier que l'ensemble du dispositif est correctement aligné (fig. 7 et 8). ■ **3:** débrancher le moteur et débrancher le câble de commande (fig. 9). ■ **4:** débrancher le câble de commande (fig. 10). ■ **5:** débrancher le câble de commande (fig. 11). ■ **6:** débrancher le câble de commande (fig. 12). ■ **7:** débrancher le câble de commande (fig. 13). ■ **8:** débrancher le câble de commande (fig. 14). ■ **9:** débrancher le câble de commande (fig. 15). ■ **10:** débrancher le câble de commande (fig. 16). ■ **11:** débrancher le câble de commande (fig. 17). ■ **12:** débrancher le câble de commande (fig. 18). ■ **13:** débrancher le câble de commande (fig. 19). ■ **14:** débrancher le câble de commande (fig. 20). ■ **15:** débrancher le câble de commande (fig. 21). ■ **16:** débrancher le câble de commande (fig. 22). ■ **17:** débrancher le câble de commande (fig. 23). ■ <b

