

**Installation and operating manual**  
**Enocean Key card switch**



Réf. 10020067

**1. General**

**1.1 Use**

The Key card switch **O<sub>2</sub>LINE 10020067** forms an integral part of the **TRIO<sub>2</sub>SYS** radio system. Radio transmission takes place at the frequency 868.3 MHz, harmonised with the European scale. It is particularly suited to non-flush mounted electrical installations, for example: renovations, changes to domestic installations or in offices with moving walls. A card input is all that is required for remote control of miscellaneous equipment via receivers. Before any use, the switch must be associated with a receiver (see the receiver documentation for programming). Each switch can control an unlimited number of receivers.



**Note:**

- No batteries or maintenance required!
- Read the operating manual carefully before initial use.

**1.2 Guarantee terms**

This operating manual is an integral part of the device and our guarantee terms. It must always be delivered to the user. We reserve the right to modify the technical design of these devices without warning. **TRIO<sub>2</sub>SYS** products are manufactured and their quality checked by making use of the latest technologies and taking into account the applicable national and international directives. If nevertheless a fault arises, **TRIO<sub>2</sub>SYS** undertakes to remedy the default as follows, without prejudicing the rights of the end customer that arise from the sales contract with his reseller:

If the event of exercising of a legitimate and regular right, **TRIO<sub>2</sub>SYS**, may at its sole discretion, rectify the device fault or supply a fault-free device. Any claim beyond this and all claims for consequential damages are excluded. A legitimate fault exists if the device cannot be used at the time of delivery to the end customer because of a design or manufacturing defect or if its practical use is severely limited. The guarantee is void in cases of natural wear and tear, incorrect use, incorrect connection, where the device has been repaired or external influence. The period of guarantee is 24 months (from the date of invoicing). French law applies to the regulation of guarantee rights.

**1.3 Recycling of the device**



To recycle the device, conform to the legislation and standards in force in the country of use.

**2. Safety**

**Observe the following points:**

- The laws, standards and directives in force.
- Best practice at the time of installation
- The device operating manual.
- An operating manual can only give general instructions. They must be interpreted in the context of a specific installation.

The device is intended solely for use conforming to its purpose. Any repairs or modifications by the user are forbidden! Do not use with other devices the operation of which could endanger people, animals or property.

**3. Technical Characteristics**

General characteristics	
Transmission frequency	868,3 MHZ
Transmission power	10 mW max.
Operating temperature	from -25°C to +65°C
Storage temperature	from -25°C to +65°C
Switching cycles	>50 000
Authentication	CE and R&TTE directive 1999/5/CE
Relative air humidity	from 0% to 95%
EnOcean Equipment Profiles	F6 – 04 – 01

**Range in Building**

Masonry	20m, through 3 walls at most
Reinforced Concrete	10m, through 1 wall / ceiling at most
Plasterboard / Wood	30m, through 5 walls at most

**Note:** The signal strength between the switch and the receiver decreases as the distance increases. Where there is a line of sight connection, the range is approximately 30 m in corridors and 100 m in large workshops or halls. The range can be increased with an **O<sub>2</sub>LINE** repeater.

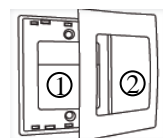
**4. Installation and initial use**

**4.1 Installation instruction**

- Do not use outside (closed environments only)
- Create a level surface before locating on rough surfaces. Unevenness may result in switch malfunctions.
- NEVER install the switch in a metal casing or in the immediate vicinity of large metallic objects. Installation on the ground or close to the ground is not recommended

**4.2 Montage**

- Use the support (1) as a template to mark holes for drilling.
- Drill holes for 5 mm wall plugs.
- Secure the support (1) using screws and wall plugs (not supplied) taking care to position
- Click the cover (2) on the support (1)



**4.3 Mise en service**

- Arrange for the installation of the receiver (must be carried out by a qualified electrician).
- Program the card switch on the receiver.

**4.4 Learn**

- To program or delete the key card switch, place the receiver in learn mode.
- quickly insert and remove three times the key card.

**Note:** The card switch is designed for interior use. Do not install it in locations that could be sprayed by water! To clean, use a damp cloth!

**5. Troubleshooting**

**5.1 New or existing installation**

- Check the circuit breaker, the electrical supply and the load connected to the receiver associated with this card reader (qualified electricians).
- If the receiver functions at a shorter distance relative to the switch, it is subject to interference or used outside the transmission range.
- Search the system environment for changes that could cause the interference (for example movement of metallic cabinets, furniture or partitions).
- Locate the card switch or receiver in a more suitable location.
- Clear the receiver and perform a new learn process..

**5.2 Automatic activation of the receiver**

- The cause may be the activation of a sensor or transmitter external to the system which has by chance been programmed on the receiver.
- Clear the receiver and perform a new learn process.

**5.3 Limitation of the range of radio signals**

- Card switch /receiver used close to metallic objects or close to materials containing metallic elements. Observe a distance of at least 10 cm.
- Humidity in the materials.
- Devices emitting high frequency signals such as audio and video systems, computers, electronic ballasts or fluorescent tubes. Observe a distance of at least 0.5 m.

**5.4 Contacts**

E-mail:..... [contact@trio2sys.fr](mailto:contact@trio2sys.fr)

**6. Déclaration de conformité**

These products can be sold and operated in the countries of the European Union. **TRIO<sub>2</sub>SYS** hereby declares that the transmitter **10020067** complies with the essential requirements and other relevant prescriptions of Directive 1999/5/EC R&TTE. For more details on the applied standards please consult website [www.trio2sys.fr](http://www.trio2sys.fr).

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