

PROXY LIFT ST

Stand-alone proximity reader for elevators applications

Technical features:

- Power supply: **12 to 24 V dc Only dc power-supply !**
- 1 x relay: 100 mA 40 V; resistive load.
- Relay's timing: bistable, impulsive or present-man function
- Reading distance: 2 cm approx
- Number of users: 61
- Cards & Tags: RFID working at 125 Khz
- auto-memory function: It automatically stores users in transit.
- dimension: diameter of the circuit 24 mm approximately.
- One red LED for service.

Proxylift ST can read any kind of proximity tag and card, **read only** as well as **read & write**, working at **125 Khz** and compatible with Armas, Em Marine protocols.

Proxylift ST can be easily programmed by **POLITOOl**. This handle device can programme the relay's timings, can set the working of the red LED, can make an addressed erasing and can activate other important functions. In alternative, if **POLITOOl** is not available, it is possible to use **special tags and cards-tool** (created by a **POLITOOl**) that allow to programme Proxy-06 functions.

Storing cards and tags: total erasing and programming

The first thing to do is a total deletion of the memory. Proceed as follows:

1. give power-supply to PROXY LIFT
2. short circuit, and maintain contact for 6 sec. consecutive, the two golden pins of PROXYLIFT circuit.
3. During this time the red LED flashes rapidly.
4. When finished, the red LED will flash slowly to indicate the entry in programme mode of the reader.
5. At this point, touch to the reader the cards and tags one at a time, up to a maximum of 61.
6. The first stored card or tag becomes the **Master** one.
7. acceptance in memory of the cards or tags is indicated by a fast flashing of the red LED.
8. give to relay the desired timing (see section Timing relay)
9. exit programming approaching a card or tag already in memory.
10. after that, the red LED turns off.

Relay's timings

PROXYLIFT comes out from the factory with the relay's timing set on "**present-man function**": that means the relay will be activated as long as you keep near the reader a valid card / tag.

It is possible to change the relay's timing using a **POLITOOl** or using a card-tool with the imposed time.

There are 199 possible different timings. See **POLITOOl** instruction manual for setting those functions.

Timings with "**direct impulse**" (the relay closes the contact)

0.25 sec	POLITOOl or card-tool	n°	3000
1 sec			3001
2 sec			3002
3 sec			3003
and so on			30xx
98 sec			3098
present man			3099

Timings with "**inverse impulse**" (the relay opens the contact)

0.25 sec			3100
1 sec			3101
2 sec			3102
3 sec			3103
and so on			31xx
98 sec			3198
Present-man			3199
bistable (permanent)			3200

How to change the relay's timings

Example: to set a direct impulsive timing of 5 sec.:

- 1 Enter programme mode via **MASTER**, keeping it close to the reader for 6 sec., at least.
- 2 As the red LED begins to flash, bring **POLITOOl** card tool, set on the number **3005**, near the reader.
- 3 To exit programme mode, bring near the reader a card / tag already stored.

It is not possible to change the relay's timing without using a POLITOOL or a card-tool.

Storing additional cards / tags in the memory

- 1 Enter programme mode via **MASTER**, keeping it near the reader for 6 sec, at least.
- 2 As the red LED begins to flash, bring near the reader the new cards / tags to store, one at the time.
- 3 If a card or tag is correctly stored, red LED will flash quickly for a while.
- 4 To exit programme mode, bring near the reader a card / tag already stored.
- 5 If the memory is full (61 cards), the reader automatically exit programme mode.

Addressed erasings

It is very important **to log** the names correspondent to the locations of cards and tags during the first memorisation in to the reader. This operation will allow you to make an addressed erasing in the system.

To make an addressed erasing:

1. Enter programme mode via **MASTER**, keeping it near the reader for 6 sec.
2. As the red LED begins to flash, bring POLITOOL card tool near the reader set on the number correspondent to the card you want to erase.
3. The red LED flashes to confirm you the correct operation.
4. If you store a new card, that one will occupy the location just erased before.
5. If required, proceed with other addressed erasings.

ATTENTION:

If you **lose MASTER** it is not possible to erase it because, without MASTER, is not possible to enter in programme mode. In this case, it's necessary to make a total erasing of the memory: short circuit, and keep contact for 6 sec. consecutive, the two golden pins of PROXYLIFT circuit until the reader enters in programme mode after a total erasing.

Nevertheless, if you **still have MASTER**, it is possible to make an addressed erasing of MASTER and replace it with a new MASTER card / tag. The location of MASTER is **0001**.

"Auto-memory" Function

Sometimes it could be useful to allow the transit of the users and, in the same time, to store their cards into the memory of the reader. Of course, this operation may have the risk to have in the memory some undesired users.

Auto-memory function can be activated in any time, to store the 61 cards or to add other cards in the memory. This function is activated via POLITOOL set on the number **3201 = auto-memory ON** (or using the card-tool with number 3201) and it is deactivated by the number **3202 = auto-memory OFF**.

If the memory of the reader is filled by the users in transit, the auto-memory function will automatically stop (full memory).

"Auto-memory" function programming

Starting from a total erasing:

1. give power supply to PROXYLIFT.
2. short circuit, and maintain contact for 6 sec. consecutive, the two golden pins of PROXYLIFT circuit.
3. During this time the red LED flashes rapidly.
When finished, the red LED will flash slowly to indicate the entry in programme mode of the reader.
4. Bring near the reader the POLITOOL CARD tool set on the number **3201 = auto-memory ON**
5. The **red LED remains illuminated** as long as the auto-memory function is ON.
6. Bring near the reader and store the **first card (Master)**. Keep this card for any operation to be done on the reader in the future.
7. Any time a card is read, even if it has already been stored or not, the relay will activate. Each card is stored only once.
8. **To stop the "auto-memory" function:** enter in programme mode via **MASTER** then bring near the reader the POLITOOL set on number **3202 = auto-memory OFF**
9. The red LED flashes for a while, then indicates the relay status (if this function is programmed) or it switches-off.

ATTENTION:

Whenever the auto-memory function is ON, it is not possible to unable this function by a total erasing neither by switching-off the power supply!

Reader connections:

RED WIRE = positive power supply (+12 / 24 V dc)

BLACK WIRE = negative power

WHITE WIRE = relay contact

BLUE WIRE = relay contact

