EVOPROX –Proximity reader

TECHNICAL DATA

Reading system	By proximity
Operating range	5cm aprox
Power supply	12Vdc (9-21V)
Standby /operating consumption	68mA / 110mA (proximity to metals or between readers affects consumption)
Compatibility	Proximity keys, proximity cards and transmitter-key
Operating frequency	13,56MHz
Wiring	6 wires (shielded-type recommended)
Cable section to 100/150/200m	0.22/0.35/0.5mm² (category 5 recommended)
Watertight	IP66
Operating temperature	-20ºC to +55ºC
Dimensions	84x75x14mm
Protocol	Wiegand 26 / Clock & Data / BUS-L
Operations	Read / Write

INSTALLATION

The reader consists of two elements: a compact box (1) with the front panel of plastic and the wiring output on the rear panel, and a beauty sticker (2). It is designed for situate directly on the wall or embedded. The fixing is made by means of two screws (3), separated 60 mm between them (ideal separation if you want to embed it in one standard switching box). The sticker must be situated on the 2 position of the figure, assuring that the led (5) is visible across the sticker window. Before situating the sticker, screw and configure the reader.

This reader can be installed into different types of surfaces, also into metallic surfaces, due to the automatic adjustment of the frequency without the need of the installer intervention.

CONNECTION

Connection is made through the wiring from the rear, which is connected directly to a MOTION (+, -, L) decoder or a Wiegand or Clock&Data station (+, -, D0, D1, Control LED).

Signal	Cable colour
+	red
-	black
L	blue
D0 / Clock	green
D1 / Data	white
LED control	brown

CONFIGURATION

The proximity reader can be configured for work under Wiegand 26 or Clock&Data or BUS-L protocol (with channels 1, 2, 3 or 4).

Use the button (4) to configure the reader's operating mode.

WIEGAND CONFIGURATION:

- Press the configuration button until the pilot light gives a series of flashing green indications. When the button is released, the pilot light will remain red.*

  There are two possible formats for Wiegand configuration, 8 bits site code + 16 bits code or 4 bits (zeros) + 20 bits code. These are configurable using the ASSISTANT.

CLOCK & DATA CONFIGURATION:

- Press the configuration button until the pilot light gives a series of flashing red indications. When the button is released, the pilot light will remain red.*

  *In Wiegand and Clock&Data operating modes, the pilot light is controlled by the station through the LED Control line.

MOTION (BUS-L) CONFIGURATION:

- Press the configuration button until the pilot light gives a series of flashing indications green and red and keep it pressed down until the number of long signals corresponds to the channel to be configured. For example, if you want to configure channel 2, release the button after the second long signal.

  The procedure can be carried out as many times as required.

OPERATING

By bringing the element close to the reading zone, the reader will send a signal to the connected decoder and the pilot light will give a signal. The pilot light on the reader will flash until confirmation is received from the receiver.

If, at the end of the operation, the pilot light remains green, this indicates that the nearly element has been accepted. If, however, it remains red, this indicates that the element has been denied.

FACTORS INFLUENCING THE OPERATING DISTANCE

Orientation of the proximity key. Faulty reader supply. Interference on the 13.56 MHz band.

PRECAUTIONS

A reader installed less than 1m from a receiver may cause radio interference.