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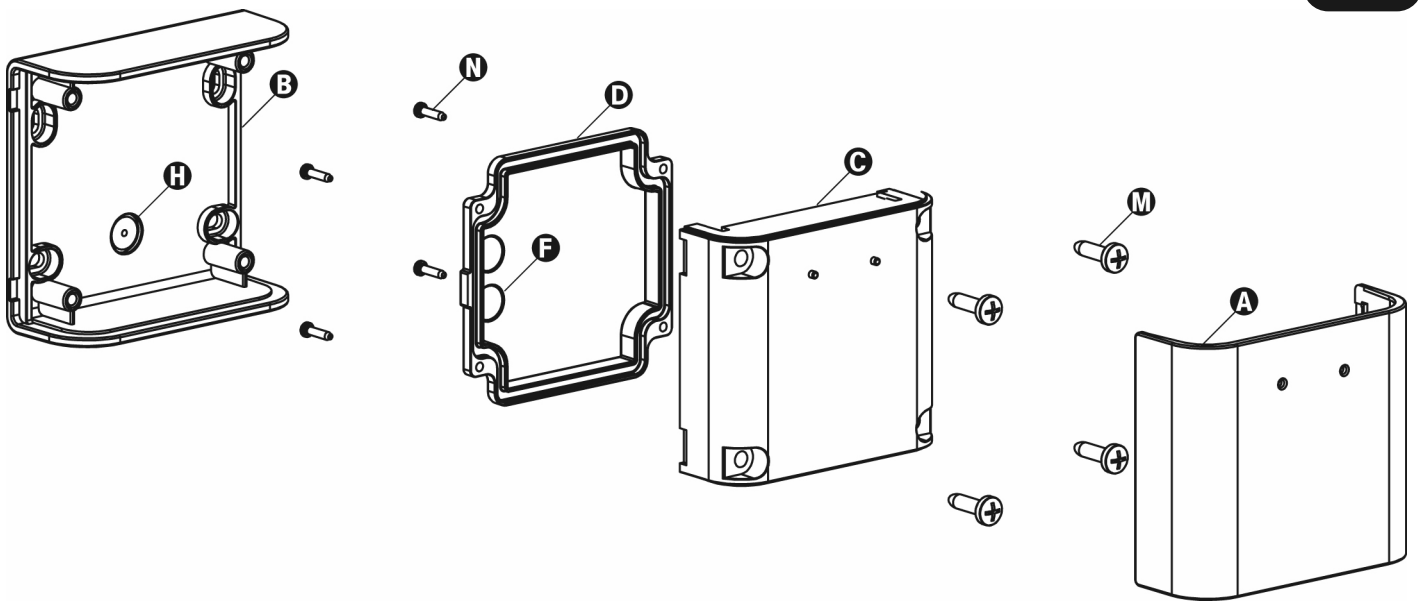
# Proksima

# VAC060

GB

## PROKSIMA PROXIMITY READER (READ & WRITE KEY)

Fig. 1



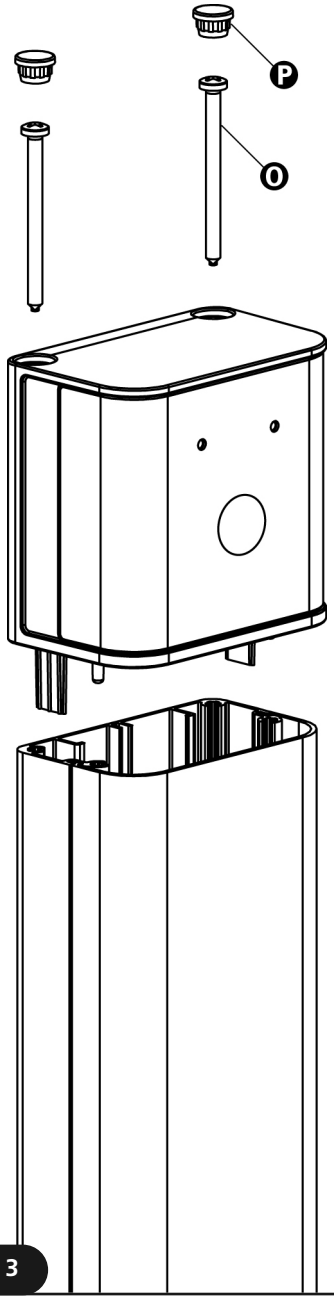




Fig. 3

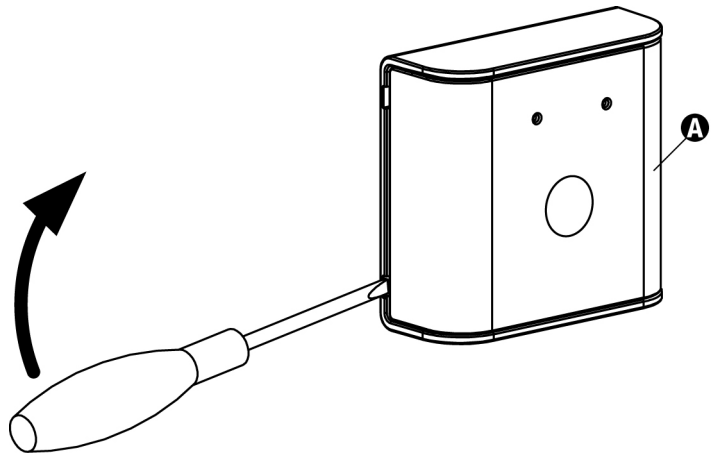



Fig. 2

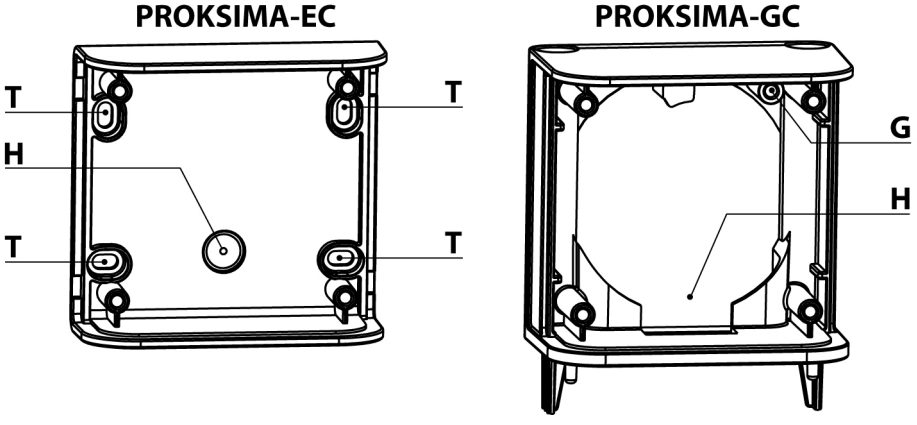



Fig. 4

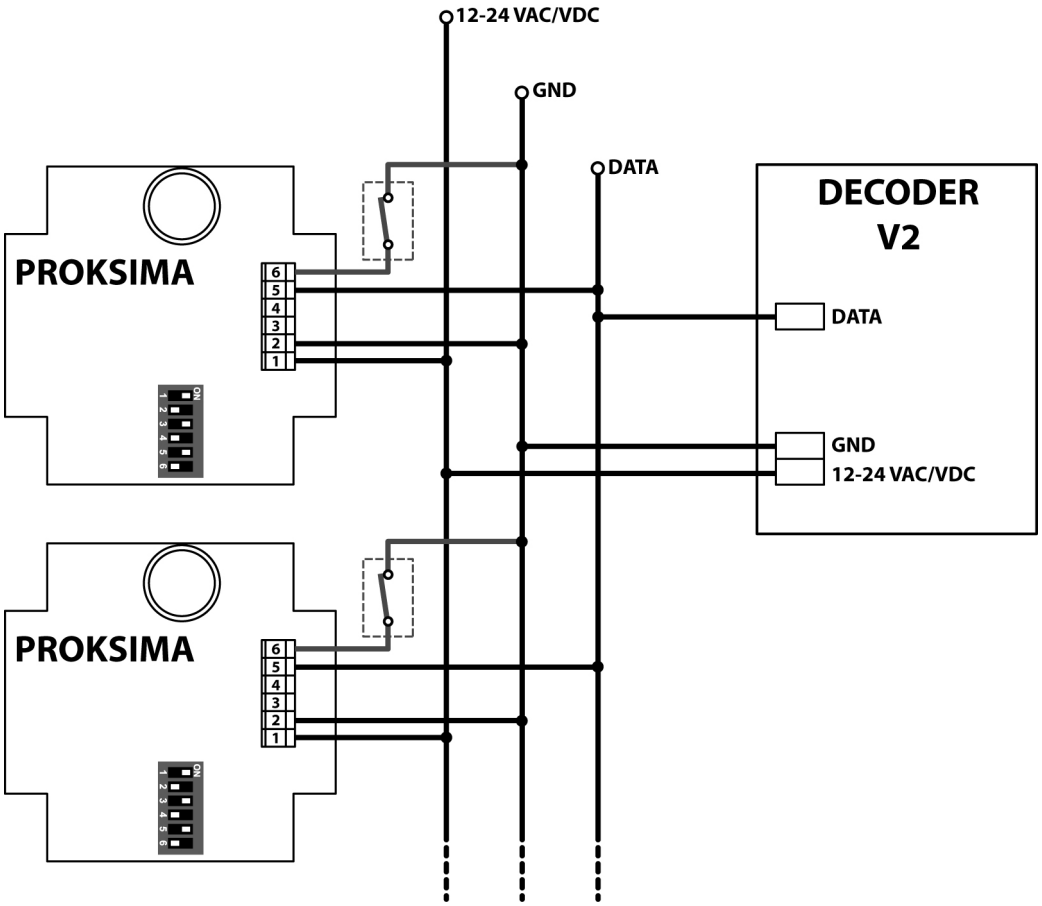



Fig. 5

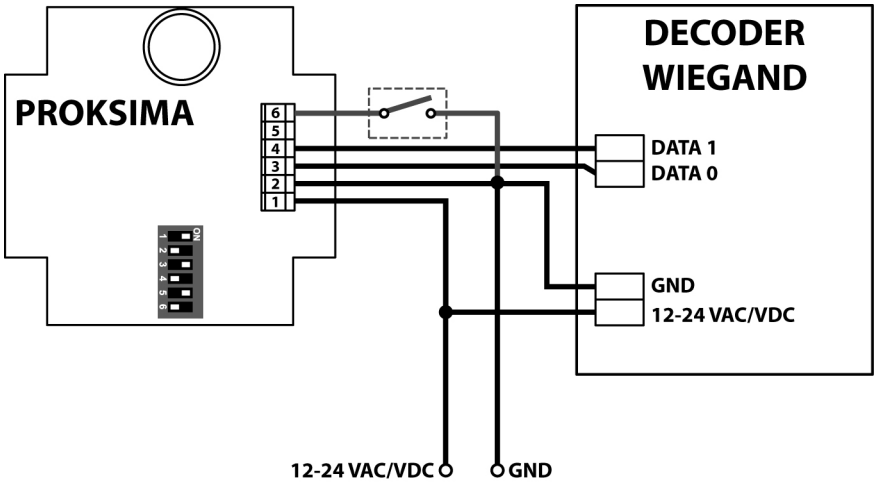



Fig. 6

| | COLLEGAMENTI ELETTRICI | ELECTRICAL CONNECTIONS | BRANCHEMENTS ÉLECTRIQUES | CONEXIONES ELÉCTRICAS | CONEXÕES ELÉCTRICAS |
|---|---|---|---|---|---|
| **1** | 12-24 VAC/VDC | 12-24 VAC/VDC | 12-24 VAC/VDC | 12-24 VAC/VDC | 12-24 VAC/VDC |
| **2** | GND | GND | GND | GND | GND |
| **3** | DATA 0 (Wiegand) | DATA 0 (Wiegand) | DATA 0 (Wiegand) | DATA 0 (Wiegand) | DATA 0 (Wiegand) |
| **4** | DATA 1 (Wiegand) | DATA 1 (Wiegand) | DATA 1 (Wiegand) | DATA 1 (Wiegand) | DATA 1 (Wiegand) |
| **5** | Codice | Code | Code | Código | Código |
| **6** | Ingresso N.C. per il collegamento di un sensore | N.C. input for sensor connection | Entrée N.F. pour la connexion d'un capteur | Entrada N.C. para la conexión de un sensor | Entrada N.C. para a conexão com um sensor |

ENGLISH

## PROKSIMA proximity reader

- PROKSIMA series proximity readers are made from pressure die cast aluminium.
- 2 LED indicators
- 1 acoustic indicator
- 6-way dip-switches:
  - 4 allowing configuration of up to 15 separate devices on the same line
  - 2 for selecting the type of code used by the system
- Available in the PROKSIMA-EC external version and the PROKSIMA-GC pillar version for GARDO series pillars.

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Operating frequency | 125 KHz |
| Maximum consumption | 0,7 W |
| Power supply | 12-24 VAC/VDC |
| Maximum recognition distance | 5 cm |
| Maximum cabled DATA length | 100 m |

## PROKSIMA-EC: INSTALLATION

1. Decide the layout of the cable trays for running the cables
2. Decide where the system should be installed, bearing in mind that the base must be fixed on a flat, straight surface.
3. Gently lever off the front panel **A** using a flat-head screwdriver (Fig 2).
4. Unscrew the 4 screws **M** and extract the device **C** from the base **B** (Fig 1).
5. Unscrew the 4 screws **N** and remove the rear cover panel **D**.
6. Drill out the base **B** at the point **H**.
7. Drill out the rear cover **D** and insert the cable glands provided
8. Pass the cables through the through hole **H** and cable glands **F** (Fig. 4).
9. Connect up the device (see the paragraph ELECTRICAL CONNECTIONS)
10. Fix the base onto the wall using appropriate raw plugs by means of the 4 through holes **T** (Fig.4).
11. Insert the device into the base and tighten the 4 screws
12. Insert the front panel

## PROKSIMA-GC: INSTALLAZIONE

1. Remove the upper cap and the front glass from the pillar.
2. Run the connecting cables up to the upper end of the pillar, passing them through the channelling behind the photocells.
3. Insert the pillar front glass by running it downwards from above
4. Gently lever off the front panel **A** using a flat-head screwdriver (Fig 2).
5. Unscrew the 4 screws **M** and extract the device **C** from the base **B** (Fig 1).
6. Unscrew the 4 screws **N** and remove the rear cover panel **D**.
7. Drill out the rear cover **D** and insert the cable glands provided
8. Pass the cables through the through hole **H** and cable glands **F** (Fig. 4).
9. Connect up the device (see the paragraph ELECTRICAL CONNECTIONS)
10. Insert the device into the base and tighten the 4 screws
11. Insert the front panel
12. Position the device above the pillar, fix it in place using the screws **O** supplied and insert the two caps **P** (Fig. 3).

## USING THE DIP-SWITCHES TO CONFIGURE THE DEVICE

The device is fitted with 6-way dip-switches through which it is possible to set the proximity reader profile.

**Dip switches 5 and 6**

Set dip-switches 5 and 6 on the basis of the receiver device to be interfaced with the proximity reader:

| **The receiver device to be interfaced with the proximity reader** | **Dip 5** | **Dip 6** |
|---|---|---|
| - V2 decoders<br>- V2 control units with data input | OFF | ON |
| - Devices with 26 bit Wiegand data input | ON | OFF |

**Dip switches 1 - 2 - 3 - 4**

If the system has the option to use one or more proximity readers with the same function, it is necessary to connect the devices in parallel and set the same combination for Dip 1,2,3,4 on all of them.

**NOTES: if the readers need to control different channels with the same key or token, simply connect the devices in parallel and set different DIP 1,2,3,4 combinations.**

The following table lists the 15 possible combinations:

| | **PROKSIMA** | | | | |
|---|---|---|---|---|---|
| | **Dip1** | **Dip2** | **Dip3** | **Dip4** | **Winppcl (KEY)** |
| **1** | ON | OFF | OFF | OFF | 1 |
| **2** | OFF | ON | OFF | OFF | 2 |
| **3** | OFF | OFF | ON | OFF | 3 |
| **4** | OFF | OFF | OFF | ON | 4 |
| **5** | OFF | OFF | ON | ON | 3+4 |
| **6** | OFF | ON | OFF | ON | 2+4 |
| **7** | OFF | ON | ON | OFF | 2+3 |
| **8** | OFF | ON | ON | ON | 2+3+4 |
| **9** | ON | OFF | OFF | ON | 1+4 |
| **10** | ON | OFF | ON | OFF | 1+3 |
| **11** | ON | OFF | ON | ON | 1+3+4 |
| **12** | ON | ON | OFF | OFF | 1+2 |
| **13** | ON | ON | OFF | ON | 1+2+4 |
| **14** | ON | ON | ON | OFF | 1+2+3 |
| **15** | ON | ON | ON | ON | - |

| **VRD** | |
|---|---|
| **Jumper J1** | **Jumper J2** |
| OPEN | OPEN |
| CLOSED | OPEN |
| OPEN | CLOSED |
| CLOSED | CLOSED |

**PLEASE NOTE:**

**The configurations highlighted in the table are consistent, in the case of mixed installations (PROKSIMA - VRD) with configuring devices so that they are not in conflict.**
**In the case of replacing a VRD reader with a PROKSIMA reader, configure the new device with the configuration corresponding to the old one.**

## ELECTRICAL CONNECTIONS

⚠ **WARNING: Ensure that the device is set in its metallic case before supplying power in order to check the correct working.**

To connect one or more PROKSIMA devices to a V2 decoder, follow the wiring diagram shown in Fig. 5

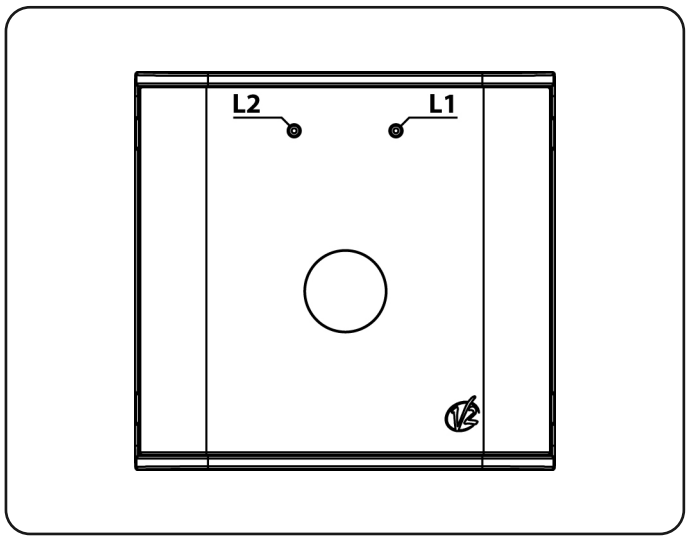
To connect a PROKSIMA device to a V2 control unit with data input, follow the procedure indicated in the control unit instruction manual.

To connect a proximity reader to a 26 bit Wiegand receiver device, follow the wiring diagram shown in Fig. 6

Input 6 (N.C.) may be used for connection to a sensor for indicating the status of the entrance (OPEN/CLOSED).
When the input is open, LED L2 is on.
If the input is not used, and it is desired to keep LED L2 off, jumper terminal 6 (N.C.) with terminal 2 (GND).

## SIGNALS

The device signals changes in status by means of the LEDs L1, L2 and a buzzer (acoustic indicator).




**LED L1:** this is on when the device is powered it is off when the device is transmitting the code

**LED L2:** is off when terminal 6 is closed to ground (GND). It can be used for connecting a sensor to indicate the status of an entrance (OPEN/CLOSED).

**Buzzer:** emits a beep each time an access device (VTR or VCR) is brought close to the proximity reader.

## MEMORISING ACCESS DEVICES

Memorising various access devices (VTR or VCR) in your system can be done in two different ways:

**Direct programming**

1. Activate memorising on the receiving device by following the procedure indicated in the instruction manual.
2. Bring the access device (VTR or VCR) close to the front panel of the proximity reader (a distance of 5 cm). The temporary extinguishing of LED L1, accompanied by a BEEP, indicates the VTR has been recognised.
3. Check memorising on the receiver has occurred.

**Programming using WINPPCL, PROGTAG and PROG2**

WINPPCL: allows the creation of codes with which to serialise VTR and VCR access devices
PROGTAG: allows the serialising of access devices with the codes generated by WINPPCL
PROG2: allows downloading of the codes created in the V2 receiver devices

## DECLARATION OF CONFORMITY

V2 S.p.A. hereby declare that PROKSIMA equipment conforms to the essential requirements established in the electromagnetic compatibility directive

| | |
|---|---|
| **2004/108/CEE** | electromagnetic compatibility |
| **2006/95/EEC** | electrical safety |
| **99/5/EEC** | directive radio |

and that the following technical standards have been applied

**EN 60950, EN 301 489-1, EN 301 489-3, EN 300 330-2**

Racconigi, 12/01/2010
Legal representative, V2 S.p.A.
***Cosimo De Falco***

ENGLISH