

12 V contact interface

F482V12

Description

This interface gives the possibility of connecting the alarm system to two sensor lines (that can be balanced with resistance, and/or which intervention can be delayed) requiring 12 V power supply.

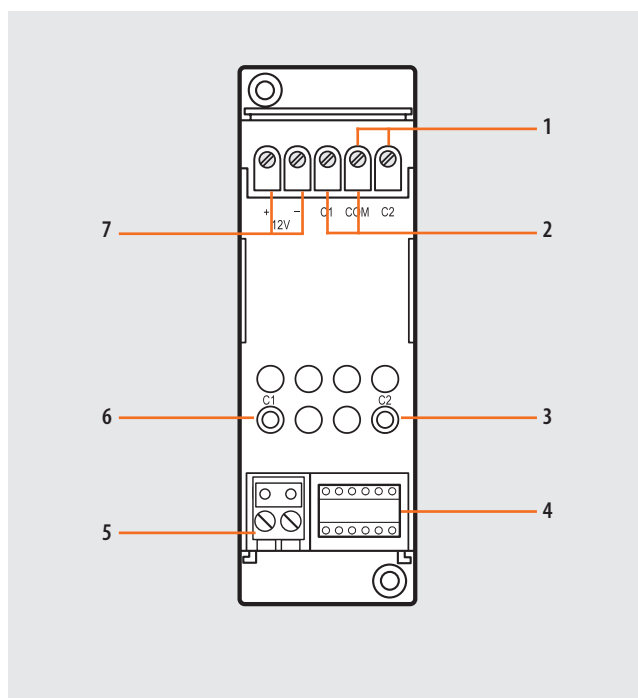
Produced in the DIN modular version, the device can be used for centralizing all the interfaces inside a cabinet. Two LEDs confirm the correct operation of the interface during system testing, and the tripping of the burglar-alarm system, when the system is armed. To ensure that the interface is installed safely the use of DIN switchboards is recommended, with their opening protected by a tamper contact connected to another interface.

Technical data

Power supply:	27 Vdc from the BUS
Max. absorption:	6 mA to which the absorption of the sensor connected must be added
Operating temperature:	5 – 40 °C
Output:	12 V Max 100 mA

Dimensional data

Size: 2 Basic modules



Legend

1. Contact line 2 or tamper;
2. Contact line 1;
3. Line 2 activated LED;
4. Configurator socket;
5. Clamp for burglar alarm BUS;
6. Line 1 activated LED;
7. Output 12 V

Configuration

For each of the two contact lines, independent from each other, the interface requires the assigning of the Z zone it belong to, the N progressive number of the sensors present within the same zone, and the setting of the MOD protection mode of the contact line.

- If the address of contact 2 is not configured, a Tamper line can be connected to clamps C2 and COM; If not required, the C2 clamp must be shorted at the COM contact.

Z1

This configurator assigns the number of the assigned zone of the NC magnetic contact connected to line 1.

Z2

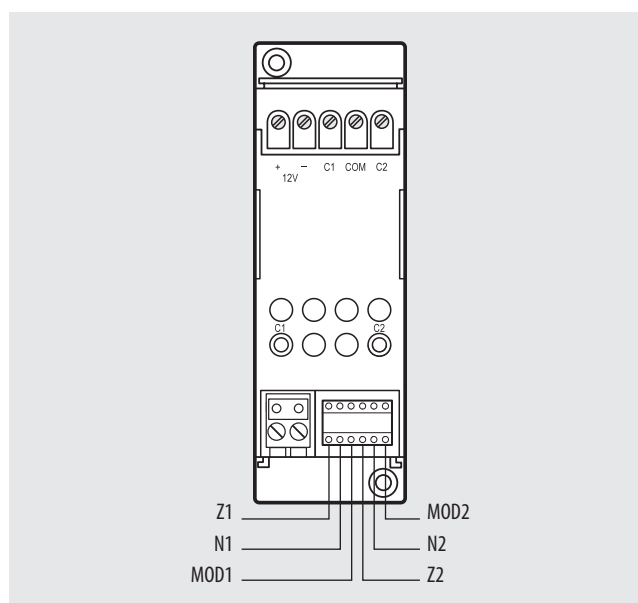
As above, for contacts connected to line 2.

N1

This configurator assigns the progressive number of the NC magnetic contact within the zone determined in position Z1.

N2

As above, for contacts connected to line 2 (zone Z2).



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Configuration

MOD1 and MOD2

In this position a configurator is inserted for selecting the operating mode of the interface according to the type of contact or detector connected to the two lines. It will be possible to create both balanced and non balanced protection lines, with the possibility of generating a delayed alarm as for zone 1. For the details of the various operating modes, refer to the table below.

Configurator	Sensor connected
none	NC contact
1	NC contact - balanced
2	NC contact - delayed *
3	NC contact - delayed * - balanced
4	NC contact and AUX event generation
5	Balanced NC contact and AUX event generation
6	Delayed NC contact and AUX event generation
7	Balanced delayed NC contact and AUX event generation

Specific mode for connection to wired rolling shutter sensors

Configurator	Sensor connected	Pulses (**)
8	Rolling shutter rope sensor - delayed*	12 (approx 20 cm)
9	Rolling shutter rope sensor - delayed*	25 (approx 45 cm)

Note (*): Follows the delay set on the central unit:

this function is operative only with central units with display. With flush mounted 3 module central units, the interface must be allocated to ZONE 1, with a time delay set (see central unit configuration).

Note (**): pulses generated by the sensor depending on the degree of opening of the window, in cm, before the alarm is generated.

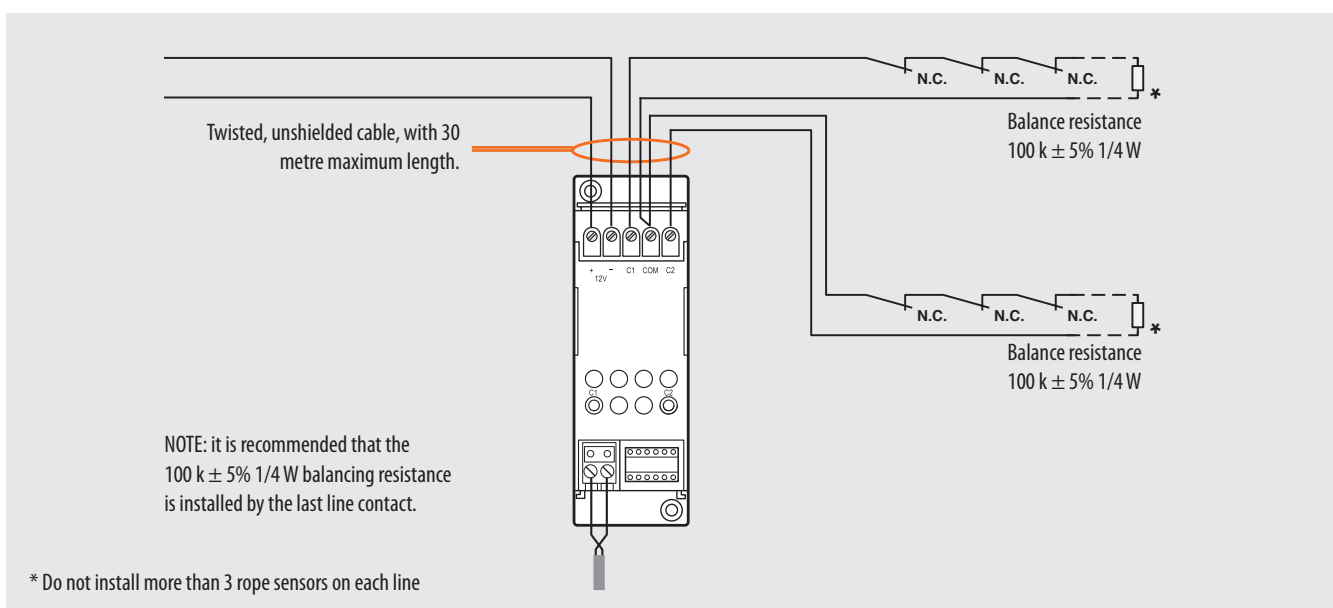
Energy saving management with Temperature control

If the contact interface is used in conjunction with the temperature control system to optimise energy saving, two different types of configurations will be possible:

- Use in the temperature control system only: The contact interface is directly connected to the temperature control BUS e gestisce in modo autonomo ed indipendente le due linee C1 e C2. Non è obbligatorio configurare entrambe le linee ma solo quella utilizzata. Inserire poi nella sede MOD1 e/o MOD2 il configuratore AUX. Then configure sockets [Z1/2] and [N1/2] to assign the address 1 to 99 of the device within the system. The coupling between the interface contact line and the temperature control zone must be performed using the TiThermo application. For more information refer to the MY HOME Temperature control guide.

- Use of a burglar-alarm system integrated with the Temperature control system: in this case, the contact interface is connected to the burglar-alarm system BUS only, and communicates with the temperature control system BUS through the F422 interface. The interface must be configured in Z1/2 and N1/2 following the requirements and features of the burglar-alarm system; only configurators with values 4 to 7 must be connected to the MOD1/2 position, corresponding to the management of NC contacts with generation of AUX event (see tables above). Also in this case, the actual coupling between the interface contact line and the temperature control zone must be performed using the TiThermo application. For more information refer to the MY HOME Temperature control guide.

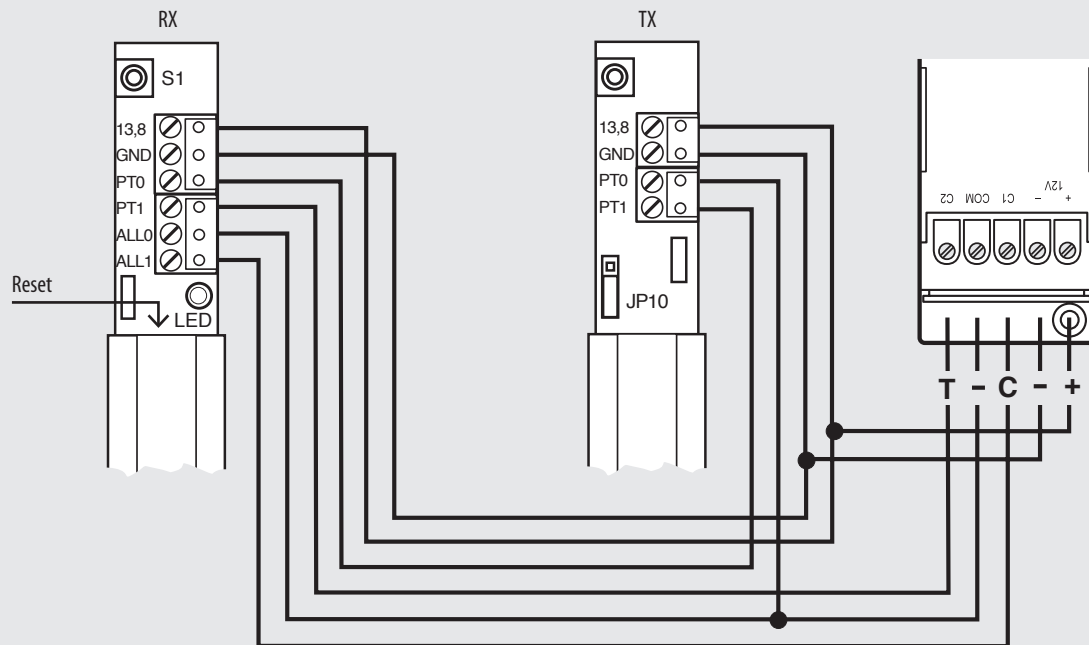
Wiring diagram



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Connection with IR 3518 - 3518/50 - 3518/150 - 3519 barriers



If the max absorption of the system allows it, it will be possible to directly connect the barrier to the interface only.

NOTE: If Z1 and N1 are configured, while leaving sockets Z2 and N2 empty, contact C2 will operate as a tamper line.

WARNING: use a 30 m max twisted, unshielded cable.