

Contact interface

3480

Description

This interface is used to connect 2 independent contact lines that can be balanced by means of a resistance, and which tripping can be delayed, as well as one tampering protection line. It can be used to achieve centralisation of all interfaces inside junction boxes. A LED on the interface confirms appropriate operation of the device during the system test procedure, and the tripping of the burglar-alarm system, when the system is armed. This interface gives the possibility of connecting the alarm system to a sensor line (that can be balanced with resistance, and/or which intervention can be delayed) requiring 12V V power supply.

Technical data

- Power supply from SCS BUS: 27 Vdc
- Max. absorption: 5 mA
- Operating temperature: 5 – 40°C

Dimensional data

- Size: 2 Basic modules

Configuration

This interface module requires - for each of the two contact lines separate from each other - the allocation of the assigned zone Z, the progressive number N of the detectors situated in the same zone, the setup of the MOD protection mode of the contact line.

Z1

This configurator assigns the number of the assigned zone of the NC/NO magnetic contact connected to line 1.

Configurator 1 gives the contact the assignment to zone 1, configurator 2 gives the assignment to zone 2 and so forth, up to a maximum of 8 zones.

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.

Configurator 1 identifies the first detector, configurator 2 identifies the second, and so forth, up to a maximum of 9 contacts for each of the 8 zones.

N2

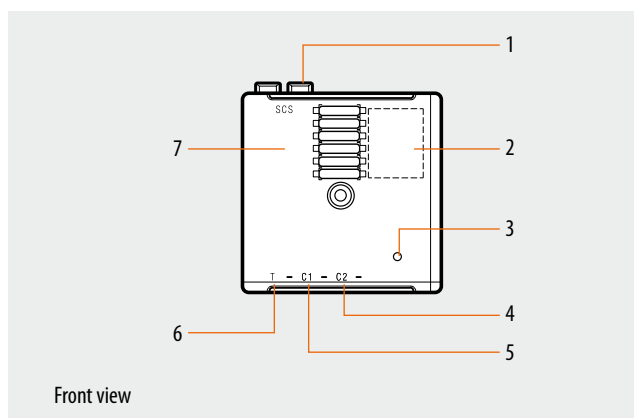
As above, for contacts connected to line 2 (zone Z2).

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.

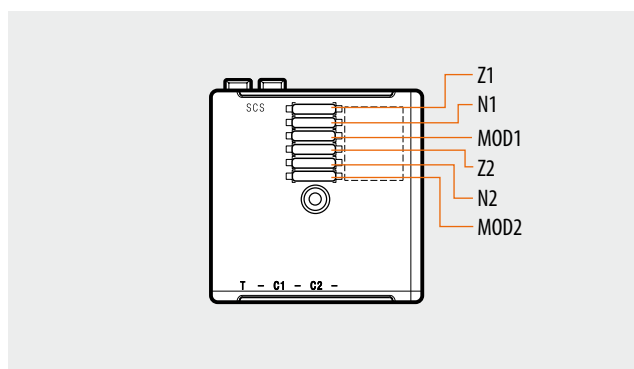
The interface can operate in two modes:

- as **interface for the management of alarm contacts**, system connection pushbutton, and auxiliary channel generation;
- as **interface for the management of technical alarms**.



Legend

1. BUS;
2. Configurator socket;
3. Line activated LED;
4. Contact line 2;
5. Contact line 1;
6. Tamper line;
7. Anti-tamper device.



Configuration

Managing alarms/system arming/auxiliary channel generation management

In this mode, two independent contact lines can be connected to the interface. The corresponding addresses must be specified in positions Z1, N1, and Z2, N2.

The configurator in position MOD1 and MOD2 specifies the type of contact for the generation of the alarm, as per the following table:

Configurator	Sensor connected
none	NC contact
1	NC contact - balanced
2	NC contact - delayed (1)
3	NC contact – delayed and balanced (1)
4	Contact NC and contact status forwarding
5	Contact NC balanced and contact status forwarding
6	Contact NC delayed and contact status forwarding
7	Contact NC delayed balanced and contact status forwarding
8	NO contact
9	NO contact for system arming from remote N.O. pushbutton (2)
AUX	NC contact – forwarding of contact status (3)

Notes:

- (1) Follows the delay set on the central unit:
this function is only available with central units item 3486, 3485/B and item HC/HD/HS/L/N/NT4601. With central units item L/N/NT4600/1 the interface must be allocated to ZONE 1, with a time delay set (see the central unit configuration).
- (2) The system is activated when the pushbutton is pressed for a minimum period of 3 seconds.
- (3) This operating mode does not generate an alarm signal, but a contact status signal, useful for Automation and Temperature control applications (automatic switching off of the heating system when a window is open).

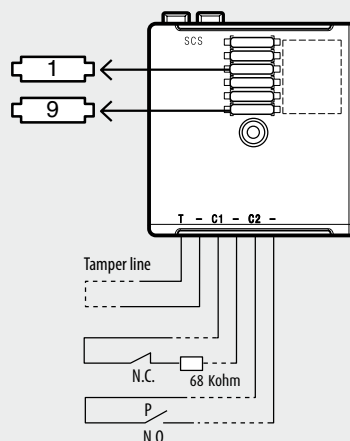
Technical alarms management

In this mode, the interface can only manage one contact line connected to the C1 and clamp, to which the NC or NO contact for the generation of the technical alarm is connected. A NO pushbutton for resetting the generated technical alarm, can be connected to the - and C2 clamps of the second line. The Z and N address of the interface must only be specified in the positions Z1 and N1.

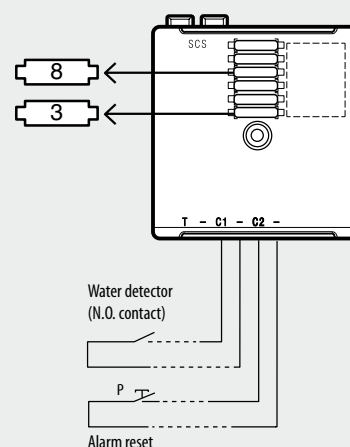
Selection of the alarm contact:

Configurator in MOD1 position	Type of contact
none	NC contact
8	NO contact

When a technical alarm with intermittent sound of the indoor siren is generated, it will also be possible to generate an Auxiliary signal. The channel of the Auxiliary signal is defined by the numeric value of configurator 1 to 9 entered in the position MOD2. If the OFF configurator is entered in this position, no auxiliary channel is generated (only the technical alarm with intermittent sound of the siren).



Alarm contacts mode: management of a balanced NC contact line with N.O. system arming pushbutton



Technical alarms mode: management of a water detection probe. If flooding occurs, a sound alarm will be generated by an internal siren, and a signal will be sent to auxiliary channel no. 3. To reset the alarm press the P pushbutton.

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:

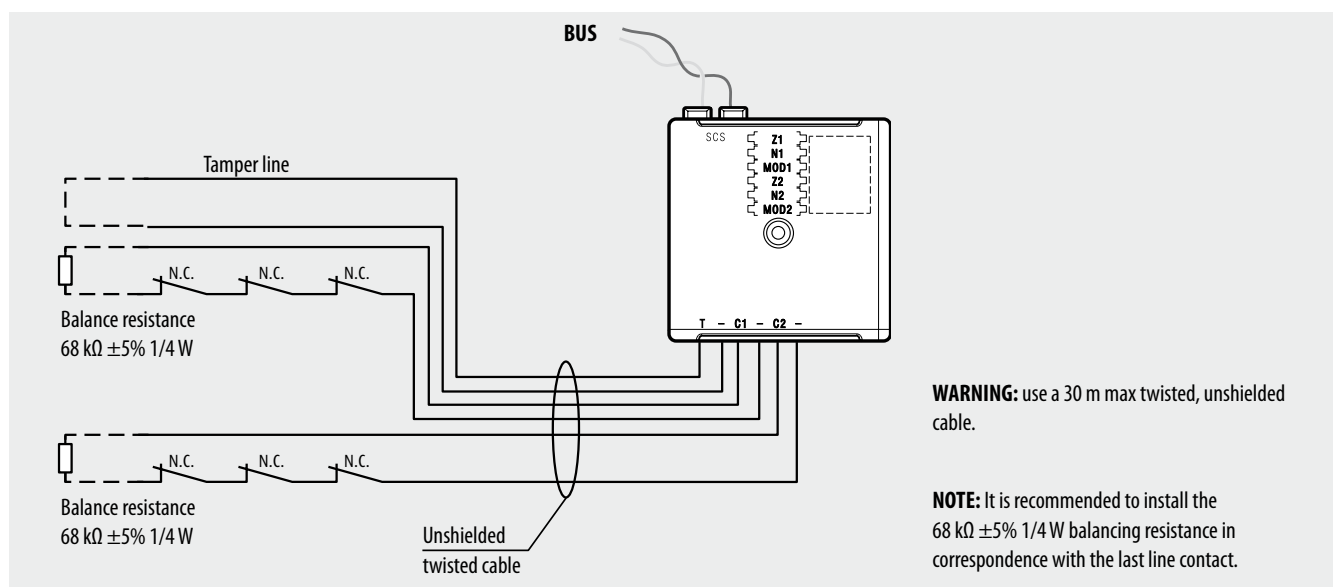
- **Use in the temperature control system only:** The contact interface is directly connected to the temperature control BUS. It autonomously and independently manages the two C1 and C2 lines. Only the line used must be configured, and not both of them. Follow by connecting the AUX configurator to the MOD1 and/or MOD2 sockets. Then configure the [Z1/2] and [N1/2] sockets, in order to assign the address from 1 to 99 to 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.

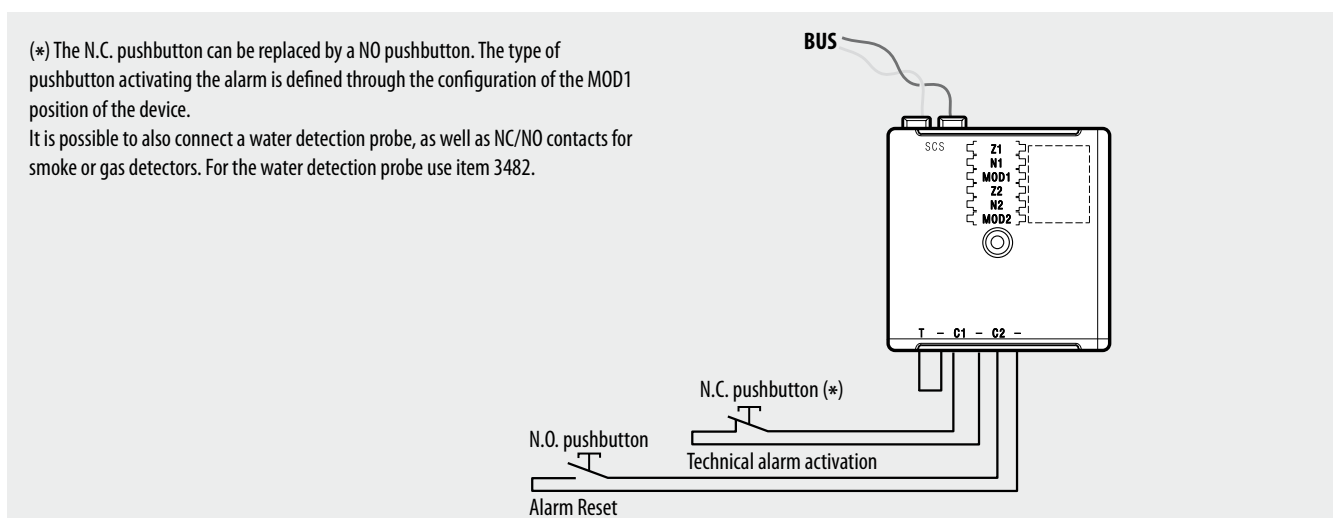
Wiring diagram



Used for managing a technical alarm

(*) The N.C. pushbutton can be replaced by a NO pushbutton. The type of pushbutton activating the alarm is defined through the configuration of the MOD1 position of the device.

It is possible to also connect a water detection probe, as well as NC/NO contacts for smoke or gas detectors. For the water detection probe use item 3482.



Flooding alarm management

