

DIN contacts interface

F428

Description

This devices let you integrate traditional control devices (switches, pushbuttons, etc.) in advanced systems with BUS operating logic.

Therefore, it is possible to extend the use of the Lighting Management system in rooms where traditional systems are already present or in historic and prestigious rooms whereby the complete or partial remaking of the electric system would entail heavy masonry work.

The old but valuable switch with its no longer compliant wiring can therefore continue to be used with it, as the connection to the load to be controlled is carried out safely by connecting it with its SCS interface with no-voltage contact.

Contact N1 controls light point PL1, contact N2 controls light point PL2.

The device is fitted with 2 LEDs for the notifications of contact closure, programming/deletion, and the status of the control devices.

The device may be installed in a MY HOME system and can be configured both physically and virtually, or as a component of the Lighting Management system, using specific configuration procedures (Plug&go, Project&Download).

Technical data

Power supply from SCS BUS:	27 Vdc
Operating power supply with SCS BUS:	18 – 27 Vdc
Absorption:	9 mA
Dissipated power with max. load:	0.2 W

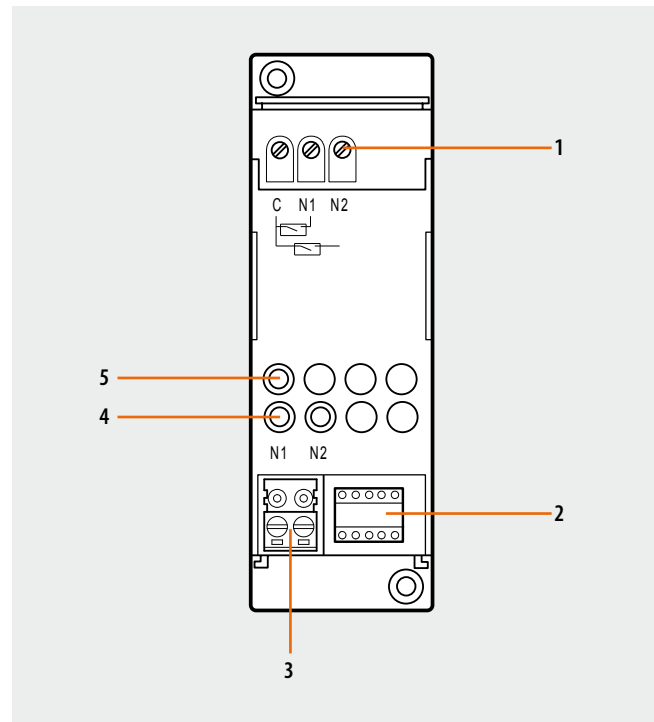
Dimensional data

Size: 2 DIN modules

MY HOME configuration

When installed in a MY HOME system, the device may be configured in two ways:

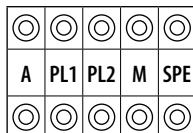
- PHYSICAL CONFIGURATION, by connecting the physical configurators to their sockets.
- VIRTUAL CONFIGURATION, by connecting the system to the PC using the 3503N Kit or the web server. The Virtual configurator software must be installed on the PC.



Legend

1. Clamps for connection to traditional devices
2. Configurator socket
(attention, it must only be used in MY HOME systems with physical configuration).
3. BUS
4. LED
5. Key

Physical configuration



The interface includes two independent central units, identified with positions N1 and N2. The two units can send:

- Controls to two actuators for two independent loads (ON, OFF or adjustment) identified with the address PL1 and PL2 and mode specified in M

or;

- A control to the scenario module item F420;

- A double control intended for a single load (motor for rolling shutter UP/DOWN, OPEN-CLOSE curtains) identified with the address PL1 = PL2 and mode specified M.

The interface has two LEDs to signal correct operation and three clamps to connect to traditional devices such as:

- Two traditional NO (normally open) and NC (normally closed) switches or pushbuttons;
- A two-way switch.

The interface also has a pushbutton to enable virtual configuration

1) SPE=0 mode - Standard functions - Automation

Possible function	Value configurator in M	
	single function	double function
Cyclical ON/OFF with short pressure and adjustment with long pressure	No configurator	—
ON	ON	—
ON timed ¹⁾	1 - 8	—
OFF	OFF	—
OFF pressing the key connected to N2 - ON pressing the key connected to N1 and adjustment with long pressure (dimmer) ²⁾	—	0/1
UP/DOWN rolling shutter to end of stroke	—	↑ ↓
UP/DOWN rolling shutter monostable	—	↑ ↓ M
Pushbutton	PUL	—

(1) The device sends an OFF control after a time set by the configurators used as indicated in the table below.

Configurator	Time (minutes)
1	1
2	2
3	3
4	4
5	5
6	15
7	30 sec.
8	0.5 sec.

(2) As a function of the receiver actuator operating mode.

NOTE: If circuits are connected to the interface clamps, the operating mode to select is PUL.

If normally open (NO) pushbuttons are connected all the other operating modes indicated in the table are performed.

2) Operating mode with Configurator in M and SPE

Possible function	Value configurator in SPE	Value configurator in M	
		single function	double function
Locks the status of the devices to which the control is addressed	1	1	–
Unlocks the status of the devices to which the control is addressed	1	2	–
Unlocks with key connected to N1 and locks with key connected to N2	1	–	3
On with flash ¹⁾	2	none – 9	–
ON (key in N1) - OFF (jkey in N2) without adjustment	1	–	0/1
Cyclical ON/OFF without adjustment (only NO contact)	1	7	–
Selection adjustment level fixed at 10 to 90 % of the dimmer ²⁾	3	1 – 9	–
Call the scenarios of module F420	4		See table ⁽³⁾
Management of scenario module item F420 ³⁾	6		See table ⁽³⁾
Timed ON (2 sec.)	8	1	–
Timed ON (10 min.)	8	2	–

(1) Device to be combined with an OFF control for switching OFF. The flash time is indicated in the table:

Configurator	Time (sec.)
none	0.5
1	1
2	1.5
3	2
4	2.5
5	3
6	3.5
7	4
8	4.5
9	5

(2) Device to be combined with the dimmer actuator and an OFF control for switching OFF. The configurator defines the adjustment in % of the load power.

Configurator N	% P of load
1	10
2	20
3	30
4	40
5	50
6	60
7	70
8	80
9	90

(3) With SPE=4 it is only possible to recall the scenario saved in the F420 module; 3) With SPE=6 it is possible to recall and program the scenarios saved in the F420 module. M=1-8: group of scenarios to be controlled:

M	First contact (N1)	Second contact (N1)
1	1	2
2	3	4
3	5	6
4	7	8
5	9	10
6	11	12
7	13	14
8	15	16

A=0 to 9 and PL1=1 to 9 are the room and the light point of the scenario module to be controlled.

PL2 must be the same as PL1, or not configured (in this case the second contact is disabled).

Scenario programmer: in order to program, change or cancel a scenario, it is necessary to enable the programming mode of the Module item F420 so that the status LED is green (press the lock/unlock key on the Scenario Module for at least 0.5 seconds); continue with the following operations:

- 1) press one of the four control keys the scenario should be associated to for 3 seconds. The corresponding LED starts flashing;
- 2) set the scenario using the corresponding controls for the various Automation, Temperature control, Sound system, etc. functions;
- 3) confirm the scenario by quickly pressing the corresponding key on the control to exit programming mode;

4) To change or create new scenarios to be linked to the other keys, repeat the procedure starting from point 1.

To call a set scenario just press its pushbutton on the control quickly.

To completely delete a scenario, press the corresponding key for 10 seconds.

3) Mode with SPE = 7 - Automation standard functions - normally closed contact

This mode can perform the controls envisaged by the Basic operating mode with SPE = 0 when NC pushbuttons or switches are connected to the interface clamps.

4) Mode with SPE = 5 - Sound system

When the interface is correctly configured, the following functions are performed:

- **M=0: ON/OFF mode**
- **N1 contact:**

With short pressure the following sequence is sent:

- ON of the sources. PL2 indicates the source to activate before switching the amplifier on. If PL2=0, source 1 is turned on (follow-me mode).
- ON of the A/PL1 amplifier.

With extended pressure the following happens:

- For point-point controls, if the amplifier is already on, only the volume is adjusted (VOL+); if the amplifier is OFF, the switch on sequence is sent first;
- For AMB or GEN controls, only the volume is adjusted.
- **N2 contact:**
- With a short pressure, the OFF control for the A/PL1 amplifier is sent.
- With an extended pressure the volume is adjusted (VOL -).

In this operating mode:

- **Point-point control:**
A = 1-9 amplifier room ;
PL1=0-9 amplifier speaker.
- **Room control:**
A = AMB
PL1 = 1-9 amplifier room the control is intended for
- **General control:**
A = GEN
PL1 = 0
PL2 = 1-4 indicates the source to activate before switching the amplifier on. If PL2=0 the follow-me mode is activated.

- **M=1 Source cycling/track cycling mode**

- **N1 contact:** cycle source
- **N2 contact:** cycle track

In this operating mode:

- **Room control:**
A = 1-9 is the amplifier room

General type controls:

A = GEN for PL1=PL2=0 general controls

Virtual configuration

Using the Virtual Configurator software it is possible to perform all the functions listed below:

- contact;
- single light control;
- single disable control;
- single scenario control;
- single CEN control;
- single scenario PLUS control;
- single CEN PLUS control;
- single AUX control.

Lighting Management configuration

When installed in a Lighting Management system, the device can be configured in the following ways:

- Plug&Go (see the dedicated technical guide)
- Project&Download,

Using the Virtual Configurator software it is possible to perform all the functions listed below:

- contact;
- single light control;
- single disable control;
- single scenario control;
- single CEN control;
- single scenario PLUS control;
- single CEN PLUS control;
- single AUX control.

For more information on the functions see the glossary before the Technical sheets chapter.

Wiring diagram

