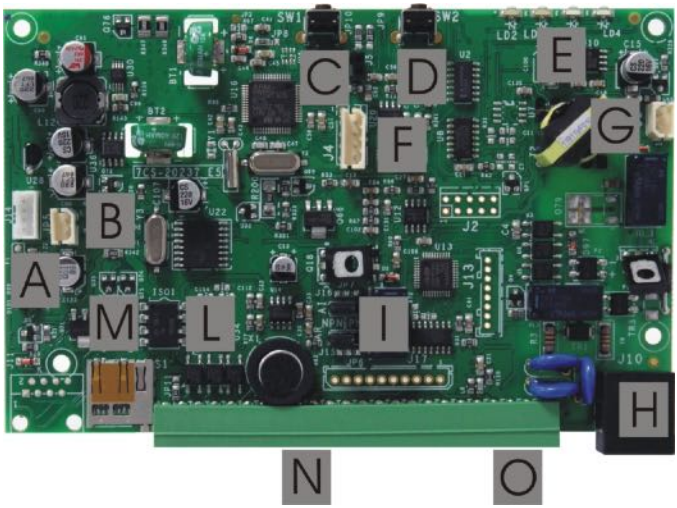
Alarm system for elevators
compliant with the European Standard
EN 81-28:2018

Synplicity PSTN

QUICK GUIDE

7IS-80453 02/10/2020

DESCRIPTION



A	Internal power-supply connector
B	Built-in backup battery connector
C	Reset pushbutton
D	Alarm pushbutton
E	LEDs
F	Serial port for PC connection
G	Built-in loudspeaker connector
H	RJ11 connector for local telephone
I	Jumper J16 for define the behaviour of output AI Jumper J15 for define the behaviour of output AR
L	Built-in microphone
M	Micro SD card slot
N	Terminal blocks
O	Battery compartment door

LEDs


LED signalling alarm / periodical test call (yellow)


(not used)


LED signalling device status (red)


LED signalling power supply status (blue)

Terminal blocks

+	12 Vdc power supply input[1] (14,5 Vdc power supply input if battery present)
-	Negative pole
AI	Given alarm indicator light (NPN/PNP by means of J16)
AR	Received alarm indicator light (NPN/PNP by means of J15)
+12	12 Vdc output max. 100 mA
C	Common terminal[2] for input AL1 and IN1
-	Negative pole
AL1	Alarm input[3] 1
AL2	Alarm input[4] 2 / Auxiliary input[4] / Reset input[4]
IN1	Alarm 1 filter input[3] / Reset input[4]
ALT2	Output for connecting an external loudspeaker
MIC2	Input for connecting an external microphone
MIC3	Input for connecting an external microphone
-	Negative pole
TEL	Local telephone
RL NO	Relay[5]
RL C	Relay[5]
⏚	Ground terminal for PSTN-line
LTI	PSTN-line or universal gateway input
LTI	PSTN-line or universal gateway input
BUS+	Bus for connecting 2W speaker units
BUS-	Bus for connecting 2W speaker units
BUS-	Bus for connecting 2W speaker units
BUS+	Bus for connecting 2W speaker units

[1] : before using this input disconnect the internal power-supply cable from the A connector in the picture at page 2

[2] : can be connected to a block **–**, to the block +12 or to an external reference

[3] : allows to connect voltage free contact pushbuttons (NO or NC) or powered pushbuttons

[4] : allows to connect voltage free contacts (NO or NC)

[5] : free contact NO

CONNECTING THE TELEPHONE LINE

PSTN line or universal gateway (2G/3G/4G)

- Connect the ground terminal (indicated by ⏚), to a ground socket in order to increase the telephone line protection.
- Connect the telephone line to terminal LTI.

CONNECTING THE SPEAKER UNITS

Synplicity PSTN comes with a built-in speaker unit.
It is possible to connect to the Synplicity PSTN up to 16 independent 2W speaker units by means of the 2-wire bus (4 units with direct power supply from the bus and 12 with separate power supply).

*Note: a **2W speaker unit** allows to realize an independent voice point with dedicated pushbutton and indicator lights.*

Each 2W speaker unit connected over the bus (the built-in speaker unit is included) must have a unique ID. Speaker units with the same ID cannot have access to the bus and are not working.

Note: the identifier 01 must be assigned to the cabin speaker unit (default is assigned to the Synplicity PSTN built-in speaker unit). If the 01 ID is assigned to a 2W speaker unit, the built-in speaker unit automatically takes the ID 99 (it is possible to assign a new ID to the built-in speaker unit through the code 73).

- Assign, using the DIP switch, an ID to each 2W speaker unit (see next paragraph).
- Connect the speaker units (beware of terminal polarity):

2W SPEAKER UNIT	***SYNPLICITY PSTN***
BUS+	BUS+
BUS–	BUS–

2W speaker unit description

A	Loudspeaker
B	Given alarm indicator light *
C	Received alarm indicator light *
D	DIP switch for ID assignation
E	Pushbutton *
F	Terminal blocks:

+12	Power supply input 12 Vdc
–	Negative
AR+	Received alarm indicator light (light positive pole)
AI+	Given alarm indicator light (light positive pole)
AR–	Received alarm indicator light (light negative pole)
AI–	Given alarm indicator light (light negative pole)
AL1–	Alarm input
AUX	Auxiliary input / Alarm input / Filter input
AL1+	Alarm input
BUS –	Bus for connecting Synplicity PSTN
BUS +	Bus for connecting Synplicity PSTN

* only for some models

G Terminal blocks for connecting external speaker and microphone

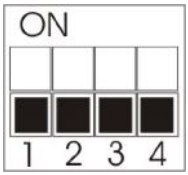
ALT2	Output for connecting an external loudspeaker
MIC2	Input for connecting an external microphone
–	Negative

H Microphone

DIP switch

The DIP switch allows to assign an ID (01~16) to each 2W speaker unit connected to the bus.

Note: it is possible to verify the operating devices over the bus through the code 63.*



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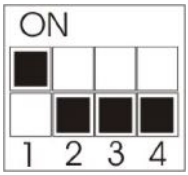

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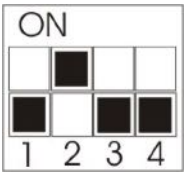

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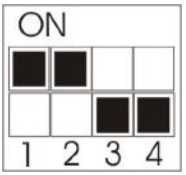

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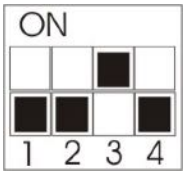

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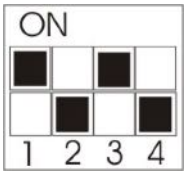

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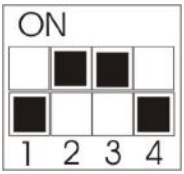

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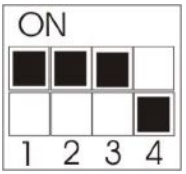

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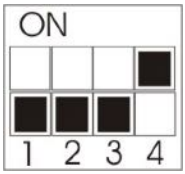

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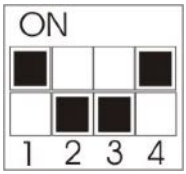

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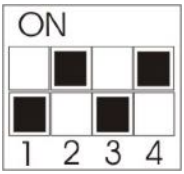

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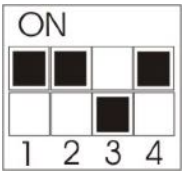

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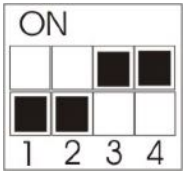

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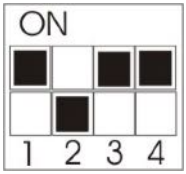

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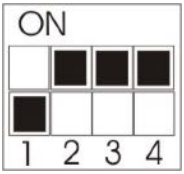

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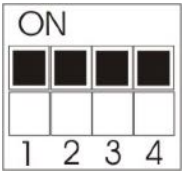

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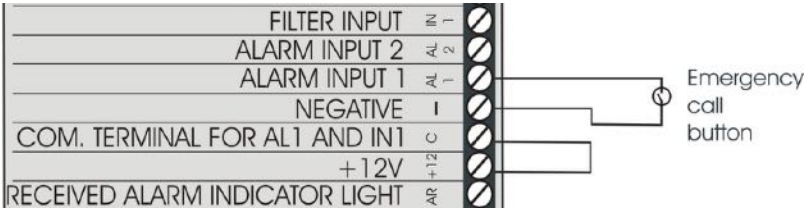
CONNECTING THE EMERGENCY CALL BUTTONS

Car pushbutton

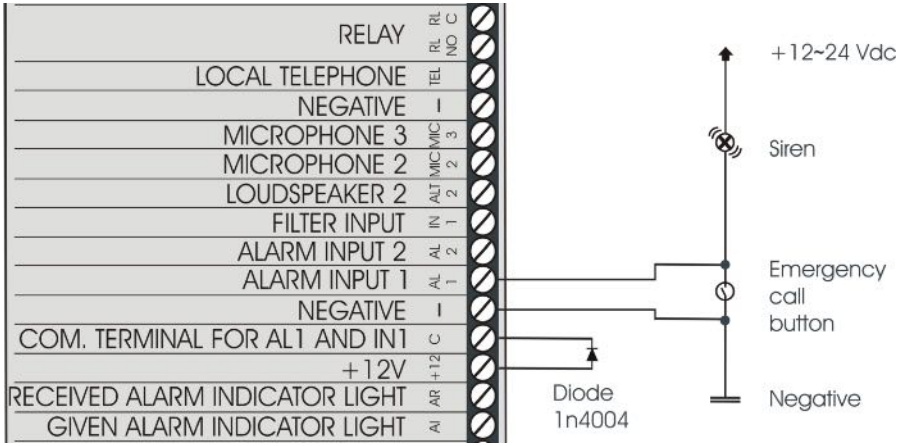
It is possible to connect (inside the elevator car) voltage free contact pushbuttons or powered pushbuttons.

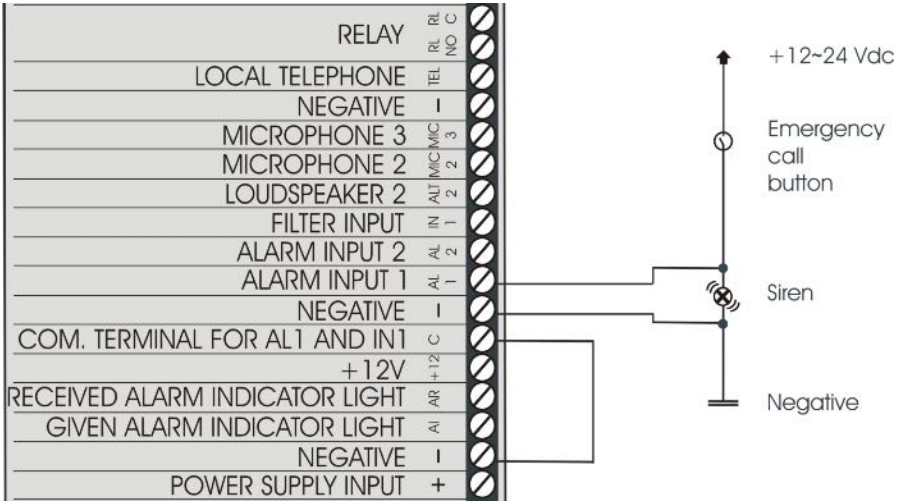
- Connect, following one of the diagrams shown below, the car pushbutton.

Voltage free contact pushbuttons



Powered pushbuttons (12~24Vdc) – 2 solutions

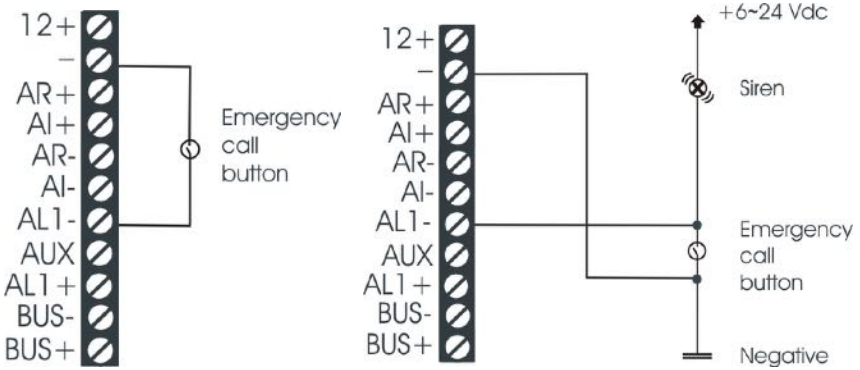


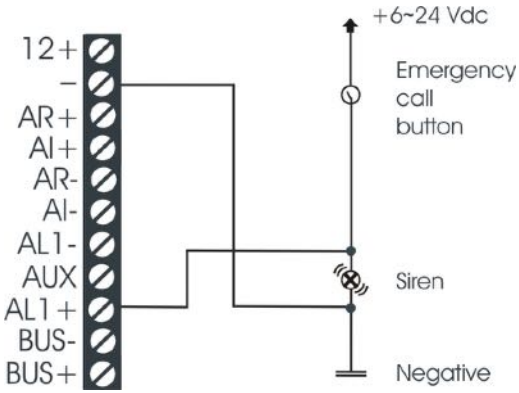


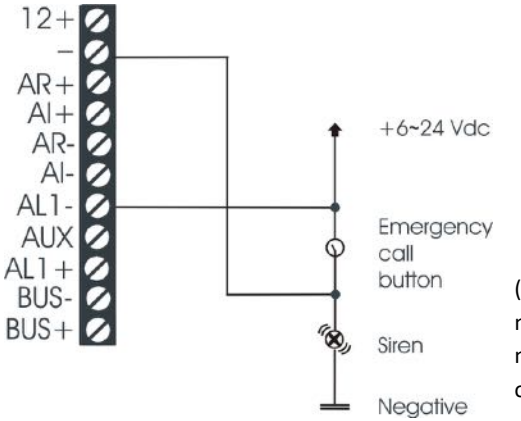
2W speaker unit pushbuttons

It is possible to connect external pushbuttons (voltage free contact pushbuttons or powered pushbuttons) to 2W speaker units without built-in pushbutton.

- Connect, following one of the diagrams shown below, the external pushbutton to the 2W speaker unit.



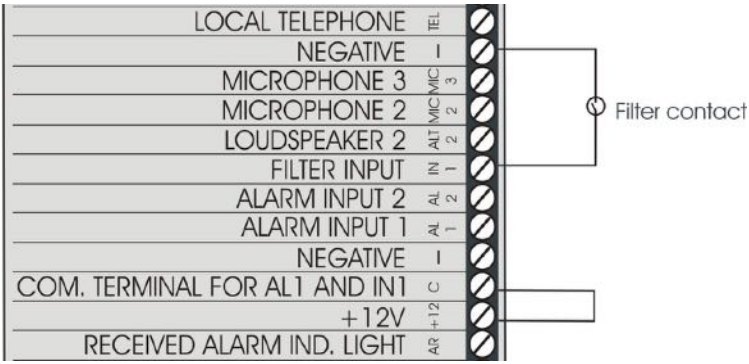


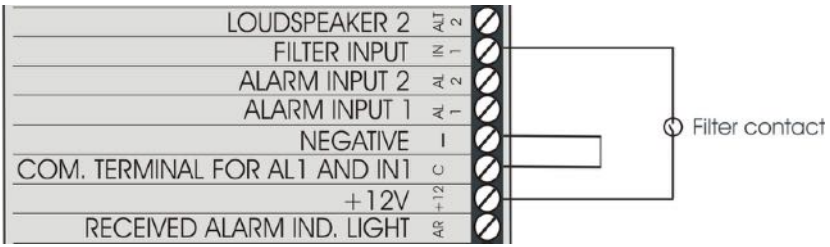


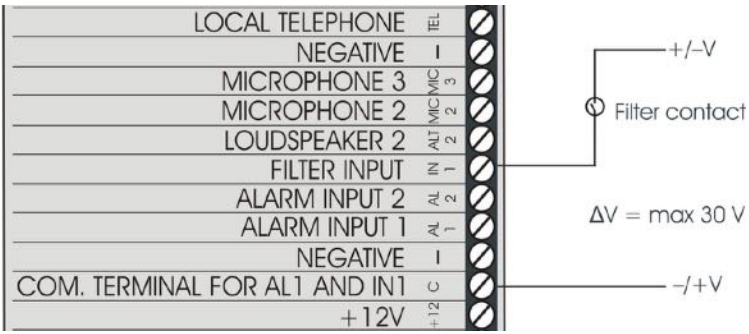
(this solution is allowed only if the negative pole of Synplicity PSTN is not connected to the negative pole of the lift)

CONNECTING THE FILTER INPUT

- Connect, following one of the diagrams shown below, the filter contact.





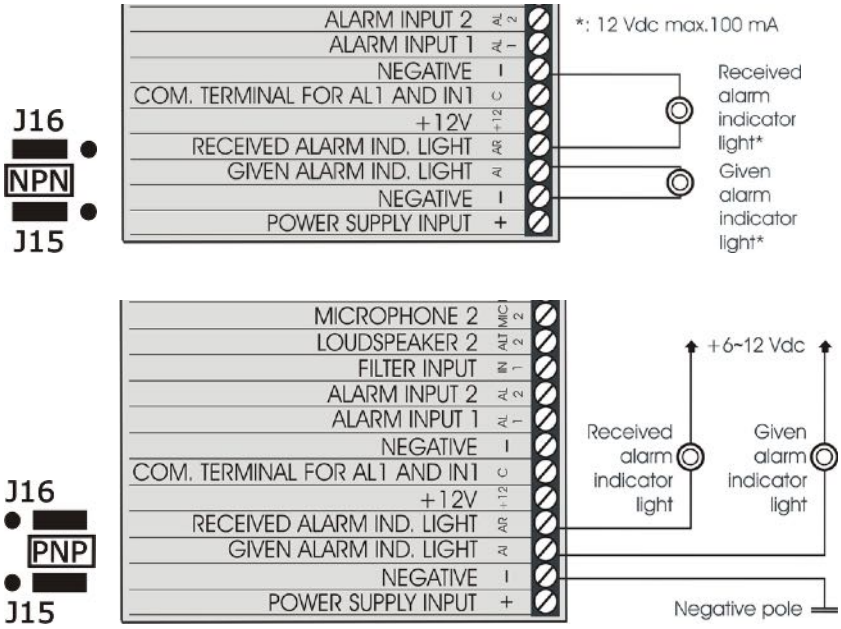


Note: if a 2W speaker unit is installed in the cabin, it is possible to use the terminal block's filter input of the speaker unit (AUX and – terminal blocks).

CONNECTING THE INDICATOR LIGHTS

The GIVEN ALARM INDICATOR LIGHT (yellow) switches on after pressing the emergency button to indicate the beginning of the alarm procedure. The RECEIVED ALARM INDICATOR LIGHT (green) switches on when the alarm call is answered.

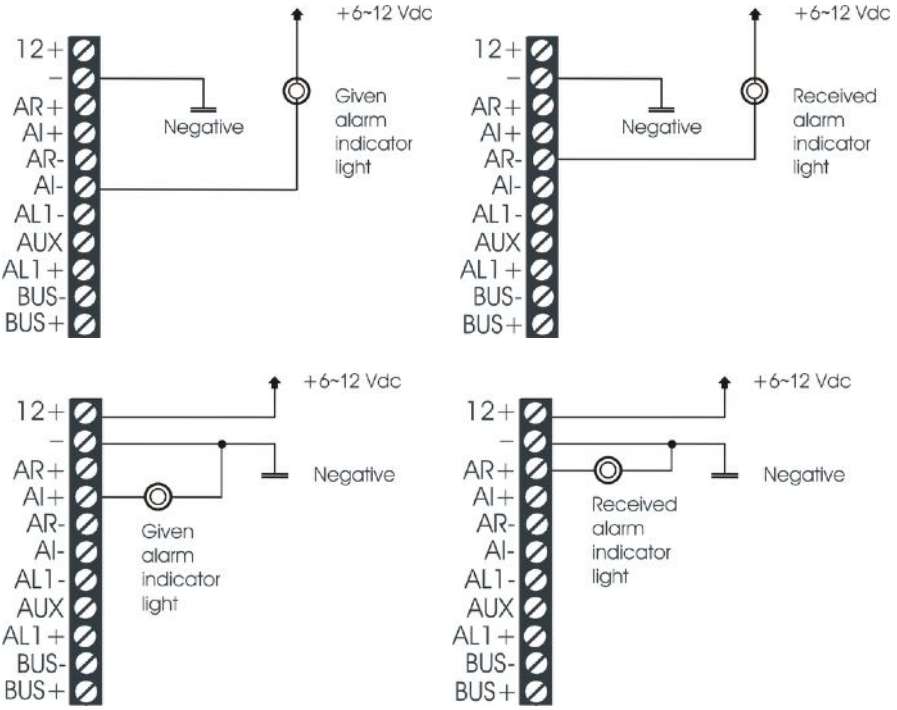
- Connect, following the diagrams shown below, the indicator lights to the Synplicity PSTN.



2W speaker unit indicator lights

Some 2W speaker unit models come with built-in indicator lights. It is also possible to connect external indicator lights.

- Connect, following one of the diagrams shown below, the external indicator lights to the 2W speaker unit.



OTHER CONNECTIONS

CONNECTING THE LOCAL TELEPHONE

- Connect the local telephone (for programming and managing the device) directly to the RJ11 connector (H in the picture at page 2) or to TEL and – terminals (irrespective of the polarity).

CONNECTING THE RELAY

- Connect the outputs RL NO and RL C (normally open contact) to the external device.

CONNECTING THE AUXILIARY INPUTS

Synplicity PSTN

It is possible to configure the AL2 input of Synplicity PSTN as auxiliary input (normally open or closed).

- Connect the external contact to AL2 and – terminals.

2W speaker unit

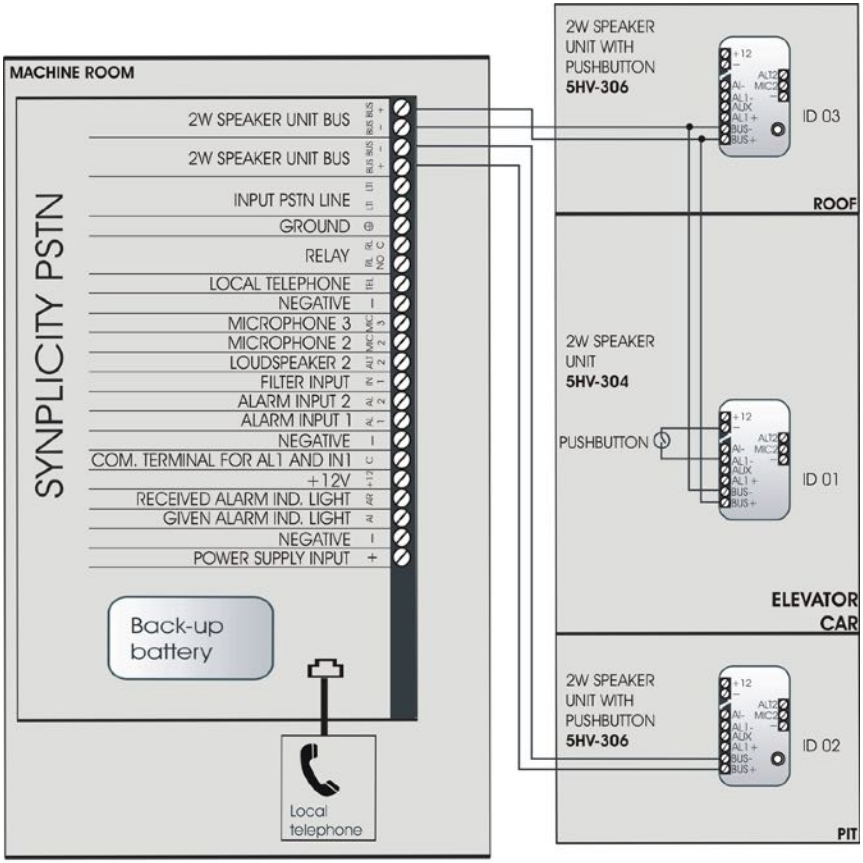
2W speaker units come with an AUX input (configurable as auxiliary input, alarm input or filter input).

- Connect the external contact to AUX and – terminals.

Note: the AUX input can be configured either as normally open or closed.

WIRING DIAGRAMS

STANDARD CONFIGURATION



NOTE
- Use main unit as car top station for car roof installation

- Up to16 2W speaker units can be connnected to the bus (4 with direct power supply from the bus and 12 with separate power supply)
- At least one 2W speaker unit must be powered exclusively by the bus
- It is possible to connect to each 2W speaker unit an external microphone and speaker

MINIMUM OPERATIONS TO VERIFY PROPER INSTALLATION

1. PROGRAMMING

- Access to programming: lift the local telephone handset and dial [*][0][#].

The programming activated message will be heard.

- Program a telephone number for the emergency-call alarm: dial [2][1][0][1][1][2] <telephone number> [#].
- Record the identification message of the specific elevator, which is meant to contain all necessary information concerning the elevator location: dial [7][1][0][1] and, after the "Correct" message, pronounce the message and hang up.
- To listen again to the previous message: lift the handset and dial [7][2][0][1].
- Make an external call to check the PSTN line or the universal gateway is properly working: dial [0] and digit the telephone number to make a test call.

2. TESTING THE ALARM PROCEDURE

- Press the emergency call button for more than 3 seconds (factory value).

The alarm starts.

3. ANSWERING THE ALARM

Note: the activation mode of the communication with the trapped person can be configured with the "Two-way communication mode during an alarm" programming (code 78).

-1st mode: automatic two-way communication established after messages

- Answer by the called party.

The two-way communication mode will be activated after the voice messages.

- Speak with the trapped person.

-2nd mode: two-way communication established after input of "Communication activation" code

- Answer by the called party.

The voice messages will be heard.

- Press [0] to speak with the trapped person.

-3nd mode: immediate and automatic two-way communication (no messages) (factory default)

- Answer by the called party.
- Speak with the trapped person.

4. RESETTING THE ALARM

Note: the alarm reset mode can be configured with the "Alarm reset mode" programming (code 77).

-1st mode: reset by "End" code

- Press [9] to end the alarm.

-2nd mode: automatic reset (factory default)

- Hang up (or press [9]) to end the alarm.

-3nd mode: automatic reset with local acknowledgement

- Hang up to end the call.
- Close the reset input (AL2 or IN1) or press the reset pushbutton to end the alarm.

An end-of-alarm call will be generated.

- Answer by the called party.
- Press [9].

If the reset input is not closed within 6 hours, the alarm is automatically ended.

Note: the reset input can be configured with the "Synplicity PSTN inputs setting" programming (code 55).

*Note: in case it should not be possible to stop the alarm procedure remotely (i.e. the entered telephone number is incorrect) simply lift the handset of the local telephone and dial * <Password> # (by factory default: [*] [0] [#]) or press the reset pushbutton.*

USING THE RESET BUTTON

Note: the reset operation does not alter the previously set parameters.

Use of the reset pushbutton (C in the picture at page 2):

- Pressing shortly
  Allows to interrupt an alarm call.
  By pressing shortly you get the same result as lifting the handset of the local telephone and entering * <Password> #.
- Pressing longer (10 seconds)
  Allows to reset the device.
  By pressing longer, the Synplicity PSTN will be re-started with no need to disconnect the power supply.

  *Note: it is also possible to reset the device through the code 995*0#.*

BATTERY REPLACEMENT

ATTENTION
Only use replacement batteries supplied by Syntium.

PROGRAMMING

In the tables below:

- **INST** indicates that the programming is allowed for the installer
- **OPER** indicates that the programming is allowed by the maintenance technician
- factory default values are highlighted in bold

Basic programming

<table>
<tr><th colspan="6">BASIC PROGRAMMING</th></tr>
<tr><td>ACCESS TO PROGRAMMING</td><td colspan="5">[*] < INSTALLER or OPERATOR PASSWORD > [#]
(factory default: [*] [0] [#])</td></tr>
<tr><td>EXITING THE PROGRAMMING</td><td colspan="5">[*] < INSTALLER or OPERATOR PASSWORD > [#]
(factory default: [*] [0] [#])</td></tr>
<tr><td rowspan="10">TELEPHONE NUMBERS (INST)

* the programming of the telephone number automatically activates the alarm/call</td><td rowspan="10">[2] [1]</td><td rowspan="10">[X] [X]
(position from 01 to 12)</td><td>SOURCE</td><td>RECEIVER</td><td rowspan="10">[X] .. [X] [#]
(X..X = telephone number, max. 20 digits)</td></tr>
<tr><td>[1] emergency-call button</td><td>–</td></tr>
<tr><td>[2] battery alarms *</td><td>[2] USER</td></tr>
<tr><td>[3] periodic automatic test call *</td><td>[3] ESSE-TI</td></tr>
<tr><td>[4] 2W speaker unit connection failure alarm</td><td>[4] CLI</td></tr>
<tr><td>–</td><td>–</td></tr>
<tr><td>[6] speaker/MIC test failure alarm *</td><td>[6] P100</td></tr>
<tr><td>[7] no external power supply alarm</td><td>–</td></tr>
<tr><td>[8] auxiliary alarm</td><td>–</td></tr>
<tr><td>[9] end of alarm</td><td>–</td></tr>
</table>

BASIC PROGRAMMING				
DELETE A TELEPHONE NUMBER (INST)	21	XX (position from 01 to 12)	#	
DATE (INST)	36	WEEKDAY	XX XX XX (dd) (mm) (yy)	
		0 SUNDAY		
		1 MONDAY		
		2 TUESDAY		
		3 WEDNESDAY		
		4 THURSDAY		
		5 FRIDAY		
		6 SATURDAY		
TIME (INST)	35	XXXX (hhmm; from 0000 to 2359)		
RECORD MESSAGES (INST)	71	01 identification message (max. 25s)	(record)	(hang up)
		02 courtesy message (max. 25 s)		
LISTEN TO MESSAGES (INST/OPER)	72	01 identification message	(listen)	
		02 courtesy message		
SYNPLICITY PSTN BUILT-IN SPEAKER UNIT ID (INST)	73	XX (ID, from **01** to 99; 01=built-in speaker unit used for the car)		
LISTEN TO THE ID DEVICES OPERATING OVER THE BUS (INST)	63*			

BASIC PROGRAMMING					
LOW BATTERY ALARM (INST)	52	0 **disabled alarm** 1 enabled alarm			
REPLACE BATTERY ALARM (INST)	56	0 **disabled alarm** 1 enabled alarm			
AUTOMATIC TEST DATA (INST)	Frequency	31	X (days, from 1 to 9; factory default **3**)		
	Time	32	XXXX (hhmm; from 0000 to 2359)		
	Automatic test alarm	34	0 **automatic test disabled** 1 automatic test enabled (EN 81-28:2018) 3 automatic test enabled (EN 81-28:2004)		
	Make a test call manually		342		
PROTOCOLS IDENTIFICATION CODE (INST)	22	2 Esse-ti 3 P100	X...X (identification code)	[#]	
SPEAKER UNITS VOLUME (INST/OPER)	80	XX speaker unit ID (from 01 to 16)	X loudspeaker (from 1 to 9; factory default **4**)	X microphone (from 1 to 9; factory default **6**)	[#]
VOLUME OF LANDING FLOOR MESSAGES (INST/OPER)	81	X (from 1 to 4; factory default **3**; 4=loudspeaker volume, 3=¾ of loudspeaker volume, 2=½ of loudspeaker volume, 1=¼ of loudspeaker volume)			
LISTEN TO THE PROGRAMMING AGAIN (INST)	X...X (programming code prefix) *				
RESTORE FACTORY SETTINGS (INST)	99*0#				

Advanced programming

ADVANCED PROGRAMMING				
CHANGE THE INSTALLER PASSWORD "0" (INST)	9 1	X X [*] (old)	X X [*] (new) X X [*] (new)	
CHANGE THE OPERATOR PASSWORD "1" (INST)	9 2	X X [*] (old)	X X [*] (new) X X [*] (new)	
EMERGENCY CALL BUTTONS DELAY (INST)	4 2	X (seconds, from **3** to 9)		
EMERGENCY BUTTONS (AL1 AND AL2) NORMALLY OPEN/CLOSED (INST)	4 1	X AL1 (0=normally closed **1=normally open**)	X AL2 (0=normally closed **1=normally open**)	
PUSHBUTTON CONNECTION FAILURE NOTIFICATION (INST)	2 4 1	X type (0=notification **1=emergency-call**)	X frequency (**1=10 minutes** 2=1 hour 3=1 day)	
SYNPLICITY PSTN INPUTS SETTING (INST)	5 5	0 **AL2=alarm input / IN1=filter input** 1 AL2=auxiliary input / IN1=filter input 4 AL2=reset input / IN1=filter input 6 AL2=alarm input / IN1=reset input 7 AL2=auxiliary input / IN1=reset input		
2W SPEAKER UNIT INPUTS SETTING (INST)	4 0	X X speaker unit ID (from 01 to 16)	X AL1 (0=normally closed **1=normally open**)	X AUX (0=alarm NC **1=alarm NO** 2=auxiliary NC 3=auxiliary NO 4=filter NC 5=filter NO

ADVANCED PROGRAMMING		
NO EXTERNAL POWER SUPPLY ALARM (INST)	51	00 disabled alarm XX enabled alarm with XX minutes delay (from 01 to 99; factory default **10**)
SPEAKER/MIC TEST FAILURE (INST)	54	0 **disabled alarm** 1 enabled alarm
2W SPEAKER UNIT CONNECTION FAILURE ALARM (INST)	59	0 disabled alarm 1 **enabled alarm**
FILTER ACTIVATION (INST/OPER)	53	0 disabled 1 **enabled**
FILTER INPUT NORMALLY CLOSED/OPEN (INST/OPER)	48	0 normally closed 1 **normally open**
FILTER BYPASS (INST)	49	XX (seconds, from 15 to **30**)
ALARM OPERATION WITHOUT TELEPHONE LINE (INST)	25	1 AI indicator light lit and courtesy message 2 AI indicator light unlit and no courtesy message 3 **AI indicator light lit and no courtesy message**
REPEATS OF COURTESY MESSAGE DURING AN ALARM (INST)	270	XX (seconds between two courtesy messages, from 02 to 59; 00=no courtesy message; **01=one courtesy message for each call**)
"COMMUNICA-TION ACTIVATED" MESSAGE SETTING (INST)	271	0 **disabled message** 1 enabled message

ADVANCED PROGRAMMING			
TWO-WAY COMMUNICATION MODE DURING AN ALARM (INST)	78	0 two-way communication established after input of "Communication activation" code	
		1 automatic two-way communication established after messages	
		2 **immediate and automatic two-way communication (no messages)**	
ALARM RESET MODE (INST)	77	0 **automatic reset**	
		1 alarm reset by "End alarm" code	
		2 automatic reset with local acknowledgement	
"PLAY IDENTIFICATION MESSAGE" CODE (INST)	47	X...X (from 1 to 3 digits; factory default **5**)	[#]
"COMMUNICATION ACTIVATION" CODE (INST)	45	X...X (from 1 to 3 digits; factory default **0**)	[#]
"END ALARM" CODE (INST)	43	X...X (from 1 to 3 digits; factory default **9**)	[#]
RESTORE FACTORY MESSAGES (INST)	74	01 identification message	
		02 courtesy message	
LANGUAGE (INST)	79	XX (language: 00 Italian, **01 English**, 02 German, 03 French, 04 Polish, 05 Portuguese, 06 Russian,07 Spanish)	
MULTI-LANGUAGE COURTESY MESSAGE (INST)	89	XX (second language)	XX (third language) [#]
TONE DECODER (INST)	68	XX (country: 00 IT/SM/AL/BA/GM/MK/MT/NO, **01 GB/AE**, 02 DE/LB/LU, 03 FR/GP/GF, 04 PL, 05 PT, 06 RU/BY, 07 ES/AD/CY, 08 BG/BR/KY/ DK/ID/IR/IS/KW/MO/MW/MX/PY/UY/VE/YE/ZM/ FO/LR, 10 HR, 11 GR/EE/FI, 12 NL/AW/VU, 13 SI, 14 HU, 15 IL, 16 AT, 17 AU/IE, 18 CH, 19 CN, 20 US/CA/JM/AI/AG/BB/BM/VG/DM/MS/ KN/TT/TC 21 BE, 22 QA, 23 SE, 24 IN, 25 TR, 26 CZ/SK/LT/MD, 27 TN/SA, 28 DZ, 29 MA, 30 RS, 31 RO, 32 JO)	

ADVANCED PROGRAMMING		
DURATION OF TWO-WAY COMMUNICATION DURING AN ALARM (INST)	[4][6]	[X] (minutes, from 2 to 9; factory default **5**)
NUMBER OF CALLS TO THE SAME NUMBER FOR EACH CYCLE (INST)	[6][0]	[X] (calls, from **1** to 9)
CALL CYCLES FOR EMERGENCY CALL ALARMS (INST)	[6][9]	[X] (cycles, from 1 to 9; **0**=unlimited)
CALL CYCLES FOR TECHNOLOGICAL ALARMS AND TEST CALLS (INST)	[6][2]	[X] (cycles, from 1 to 9; 0=10 cycles; factory default **3**)
WAITING TIME BETWEEN TECHNOLOGICAL OR TEST CALLS (INST)	[5][8]	[X][X] (minutes, from 01 to 99; 00=30 seconds, factory default **02**)
DURATION OF CALL TO EACH NUMBER (INST)	[9][0][0][6][7]	[X][X] (seconds, from 15 to **60**)
CLI CALL DURATION (CLI)	[6][7]	[X] (seconds, from 00 to 99; factory default **10**)
AUTOMATIC ANSWER (INST)	[6][4]	[X] (ring number, from 1 to 9; 0=disabled; factory default **2**)
OPERATION MODE AFTER AUTOMATIC ANSWER (INST)	[7][6]	[0] programming mode [1] **direct connection with the car**
CONNECTION DURATION AFTER AUTOMATIC RESPONSE (INST)	[6][5]	[X] (minutes, from 1 to 9; factory default **3**)

ADVANCED PROGRAMMING		
RELAY SETTING (INST)	751	1 same behaviour as outputs AI
		2 same behaviour as outputs AR
		3 **active for external power failure**
		4 door opener
		5 active as long as the emergency alarm progresses
		6 active as long as the buttons are pressed
		7 active for telephone line absence
		8 active for low battery
RELAY INTERMITTENCE (INST)	301	0 **steady-state**
		1 intermittent (500 ms ON / 500 ms OFF)
MULTI-LINK FUNCTION (INST)	86	X (from **0** to 9; 1=master, 0=function disabled)
LISTEN TO THE BATTERY LEVEL (INST)	38* (expressed in mV)	
LISTEN TO THE EXTERNAL POWER SUPPLY LEVEL (INST)	37* (expressed in mV)	
TEST OF ALARMS (INST)	90099	1 emergency-call button
		2 battery alarm
		3 periodic automatic test call
		4 2W speaker unit connection failure alarm
		6 speaker/MIC test failure alarm
		7 no external power supply alarm
		8 auxiliary alarm

Programming via e-stant software

It is possible to program Synplicity PSTN via computer by using the USB/serial proprietary cable and the dedicated *e-stant* software.

e-stant software also allows to:
- update the firmware of the Synplicity PSTN
- customize the messages of the Synplicity PSTN
- set a micro SD card to use for programming, customizing the messages and updating the firmware of the Synplicity PSTN.

Programming via micro SD card

The micro SD card properly set allows to:
- program the Synplicity PSTN
- update the firmware of the Synplicity PSTN
- customize the messages of Synplicity PSTN.

To use of the micro SD card see the relating instructions.

USE

Local use

: lift the local telephone handset

: lift the local telephone handset and dial [*][0][#] to access programming

LOCAL USE	
CONVERSATION WITH THE SPEAKER UNITS	CABIN SPEAKER UNIT (ID 01) [1][1] CABIN SPEAKER UNIT (ID 01) [1][2] SPEAKER UNIT (ID 02) [1][3] SPEAKER UNIT (ID 03) [1][*][X][X] SPEAKER UNIT ID XX (04~16)
PROGRAMMING	[*] ... [*]
CONVERSATION WITH THE SPEAKER UNITS	[1][1] CABIN SPEAKER UNIT (ID 01) [1][2] SPEAKER UNIT (ID 02) [1][3] SPEAKER UNIT (ID 03) [1][*][X][X] SPEAKER UNIT ID XX (04~16) [1][0] DEACTIVATE ALL
EXTERNAL CALLS	[0] <TELEPHONE NUMBER>
DOOR OPENER RELAY	[8][2][1]

Use remotely with Synplicity PSTN at rest

- Call Synplicity PSTN and wait for a response.
- Listen to the elevator identification message, if present.
- Dial:
  [1][1] to speak with the cabin speaker unit (ID 01)
  [1][2] to speak with the speaker unit (ID 02)
  [1][3] to speak with the speaker unit (ID 03)
  [1][*][X][X] to speak with the cabin speaker unit ID XX (04~16)

or

- Dial ✱<password># (factory default: ✱0#) to access programming.
- All of the programming and functions below can now be performed:

USE REMOTELY WITH SYNPLICITY PSTN AT REST	
PROGRAMMING	✱...✱
CONVERSATION WITH THE SPEAKER UNITS	11 CABIN SPEAKER UNIT (ID 01 12 SPEAKER UNIT (ID 02) 13 SPEAKER UNIT (ID 03) 1✱XX SPEAKER UNIT ID XX (04~16) 10 DEACTIVATE ALL
DOOR OPENER RELAY	821

SIGNALS

LED signalling alarm / periodical test call (yellow)

Emergency-call alarm

Emergency call alarm suspended

Other alarms - Test call

LED signalling device status (red)

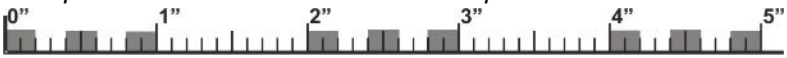
Normal operation (no alarm)

Alarm

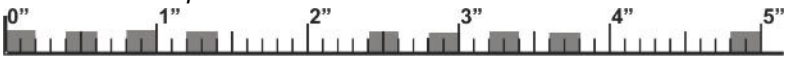
Voice connection

Battery disconnected or low battery (max. 1-hour operation in idle state)

2W speaker unit connection error or bus problem



Absence of telephone line



Button failure

LED signalling power supply status (blue)

The external power supply is connected and the battery has max capacity charge

The external power supply is connected and the battery has good capacity charge

The external power supply is connected and the battery has medium capacity charge

The external power supply is connected and the battery has low capacity charge

The external power supply is connected and the battery is either disconnected or dead

The external power supply is disconnected and the battery guarantees more than 7-hour operation in idle state

The external power supply is disconnected and the battery guarantees up to 7-hour operation in idle state

The external power supply is disconnected and the battery guarantees 2-hour operation in idle state

The external power supply is disconnected and the battery guarantees 1-hour operation in idle state

Given alarm indicator light (yellow)

Alarm

Received alarm indicator light (green)

Voice connection

Missed test call notification

The Given alarm indicator light and the Received alarm indicator light flash in opposition to indicate the failure of the automatic test call.

The flashing sequence ends after the next successful test call or emergency call.

Given alarm indicator light

Received alarm indicator light

NOTE

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