DPH - Opening doorphone casing

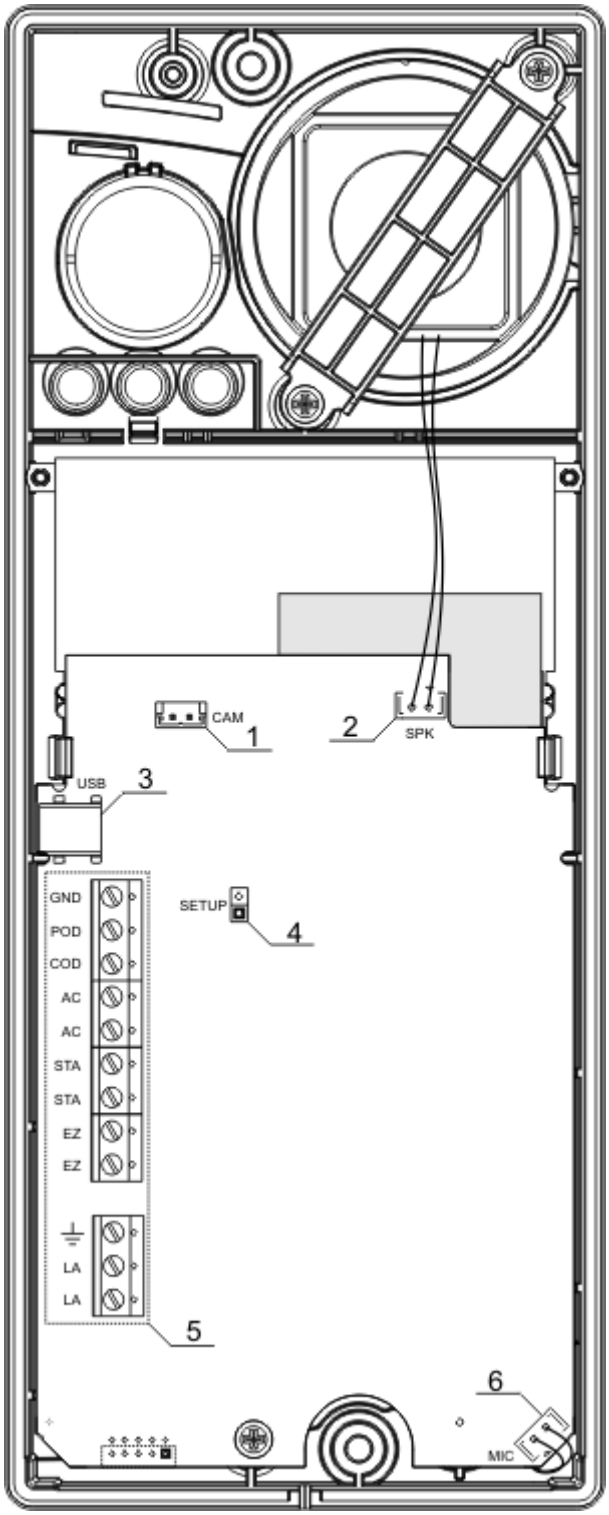
Front panel of DPH doorphone is fixed by wrench srews M4, included in purchased set. Location of these screws is marked by digit 1, visible on below figures.

Following table explains marking used on figures.

Digit	Significance
1	Screws for fixing front panel
2	Doorphone speaker cover
3	Hole for microphone installed in doorphone
4	Address window
5	Establish call button
6	Mark, informing about RFID card reader

Warning! If in doorphones, which include embedded RFID card reader, you use card with standard credit card dimensions, it is enough to approach this card to 5 - 6cm from doorphone, in parallel to doorphone, bellow speaker so over PCB presented on below figure. If you use small pendants as RFID card, it is recommended to aproach such pendant to 1cm in place where there is mark described as 6 on above figures.

To front panel the PCB board is fixed. It is visible after removing front panel. All elements neccessarily to doorphone installation are accessible and it is not needed to remove PCB from front panel. View of PCB fixed to front panel is presented on following figure:


CAM
1
2
SPK
USB
3
SETUP
4
GND
POD
COD
AC
AC
STA
STA
EZ
EZ
LA
LA
5
6
MIC

DPH - Doorphone connection

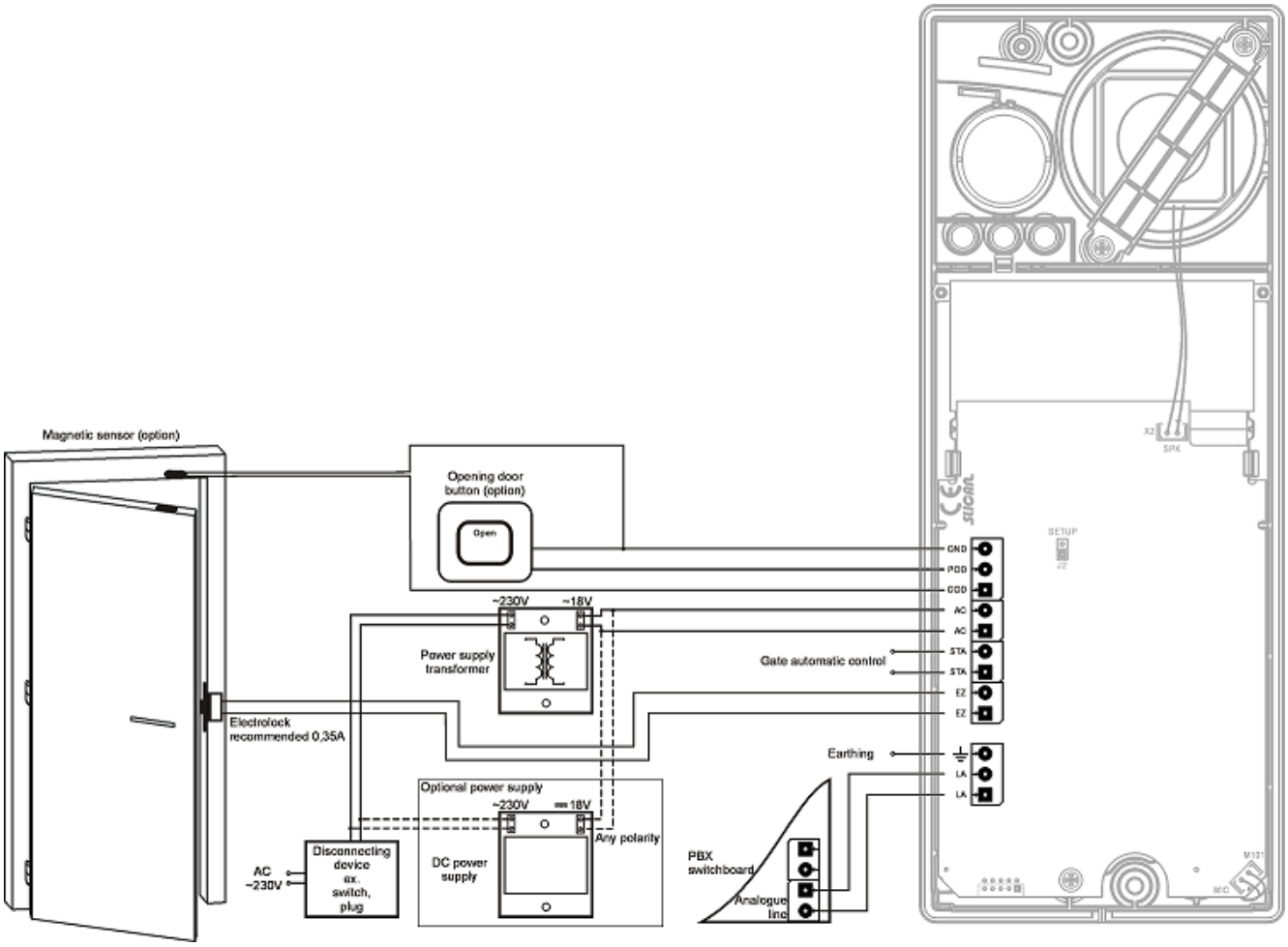
Connecting doorphone can be executed via appropriate cables connected to connecting terminal located on doorphone PCB. Connecting terminal is visible and accessible afer unscrewing front panel, this operation is described in chapter 2.2 DPH - Opening doorphone casing.

> **Warning!** Before connecting cables to connecting terminal, cables should be bring into the casing via hole located on casing backside.

Connections located in connection terminal, usetd to doorphone installation are presented in following table:

	earthing (for proper operation of doorphone over-voltage protection)
LA LA	PBX subscriber line (polarity is not important)
EZ EZ	electrolock, 12V DC, max 0.7A
STA STA	isolated normaly open relay connection used to control additional device - allowable voltage is equal to max 24V AC STA Max 0.7A
AC AC	power supply connections 14 - 35VDC or 12 - 25 VAC
COD	opening door sensor - disconnection from GND decrease EZ relay operation time
POD	opening door button (relative to GND)
GND	ground for POD, COD signals

Connection scheme of doorphone DPH is presented on following figure.



DPH doorphone supply can be realized using AC or DC. Power supply device should be selected according user needs. Due to wide possibilities, Slican company doesn't offeranny power supply device together with DPH doorphone, it remain to user decision. In Slican offer - as a separate position in price list - there is AC transformer TRS10-V18-N, with nominal voltage equal to 18V, this transformer fulfil supply requirements of DPH doorphone. Below is presented mentioned above transformer:

DPH - Doorphone programming

PIN code

Every DPH doorphone can be equipped in PIN code. By default there is no PIN code, PIN code can be used to protect DPH against unathorized access.

Establishing call

- To program DPH doorphone it is necessarily to establish call between PBX phone and doorphone.
- Doorphone is programmed using DTMF tones send by phone connected to doorphone.

Programing mode entering: 0987

- To enter programing mode - during established call dial: **0987**[1] (if no PIN is defined) or **0987<PIN>**
- In programing mode:
    - doorphone buttons don't operate and after pressing any button reject signal (low frequency) is generated.
    - Loudspeaker is muted.

Navigation

**(asterisk) Cancel*

- After pressing *, in every moment, entered parameter is canceled and program returns to XY coordinates selection.

 # (hash)OK Confirm

- After pressing # entered parameter is confirmed.
- After pressing # doorphone answers as follows:
    - confirmation signal (high frequency)
    - rejest signal (low frequency) if entered parameter is improper.

*Leaving programing mode 2 x * (asterisk)*

- After pressing asterisk two times program mode is leaving.
- After program mode leaving connection established for programming is disconnected

Programming table

- Values in [ ] - default values
- All programmable fields are organized as XY coordinates table.

DPH programming table is as follow

Y\ X	0	1	2	3	4	5	6	7	Meaning
1	Short number 0 Top button **[21]**	Short number 1 Bottom button **[empty]**							**Number dialed after pressing button.** **Max 16 digits** No number - button disabled
2	**Number dialing finish with #(Hash) [1]** 1 - ON 0 - OFF	**Only handset lifting [ ]** Line occupation. In PBX hot line must be declared. 0-Top button 1-Bottom button Empty - hot line is inactive	**Max call time [180]** 10..360 sec	**Finish call [0]** 0 - none 1 - POD 2 - COD	**DPH factory settings** # confirm, after confirmation DPH resets	**Confirm. time [10]** 0..60sec[2 1]	**Call begin button [0]** 0 - none 1 - POD 2 - COD Short number 0 is dialed.	**Auto answer [1]** 0 - NO 1 - YES	**Settings**
3	**EZ opening time [3]** 1..60 sec	**EZ working mode [0]** 0 - electrolock (NO) 1 - electromagnetic keeper (NC)	**STA opening time [2]** 1..360 sec	**Receiving DTMF * [3]** 0 - no action 1 - EZ opening 2 - STA opening 3 - EZ and STA opening at the same time	**User RFID action [3]** 0 - no action 1 - EZ opening 2 - STA opening 3 - EZ and STA opening at the same time	**STA mode[0]** 0 - Gate mode 1 - Light mode			**Output settings** • EZ - electro lock, • STA - automatic control

4	**Speaker volume [3]** Allowable values 0..7, 0 - minimal volume	**Speaker volume change** 2 - increase volume 8 - decrease volume During adjustment DPH speaker is active	**Speaker sensitivity [1]** 0 - small 1 - medium 2 - high	**Switch level [2]** 0..8 Minimal value of speak direction switching level					**Acoustic settings**
5	**Service RFID card** 0000 - store service card Service card enables to assign new RFID cards.	**Remove RFID cards** 0000- remove all RFID cards							**RFID cards**
6	**PIN change** Entering 4 digits PIN code Entering method: PPPP#PPPP#, P- any PIN digit 0..9, # - hash in DTMF For sequence ## - erasing PIN (no PIN) PIN entered in DTMF is equal to admin PIN entered from DPH16 keyboard.								**PIN**

Summary

- XY coordinates acceptation causes high frquency (OK) signal generation.
- It is possible to entering XY coordinates longer than 2 digits - only two last digits will be used.
- XY coordinates confirmation - button HASH (#)
- Parameter entering can be always canceled by STAR (*) button. as a result low frequency signal (BAD) is generated and jump to coordinates selecting
- Confirmation of any parameter can be done with HASH (#) button. If parameter value is correct and parameterr was succesfully stored in FLASH memory - high frequency signal (OK) is generated and dorphone waits for coordinates selection.
- If parameter value is incorrect - low frequency signal (BAD) is generated and dorphone waits for coordinates selection.
- Max call time - new value is obvious for next call

- For DPH.AB-KS1 short number 0 is active
- For DPH.AB-KS2 short numbers 0 (upper button) and 1 (lower button) are active
- For DPH.AB-KS1, 2RF field 05 is active (RFID cards)
- If value of STA mode option is equal to 0, active are STA control by RFID, PINu and DTMF, otherwise if value of STA mode option is set to 1, only only pressing any button or answering incoming call can trigger STA output.
- If value of option Auto answer is equal to 0, an incoming call can't be answered by doorphone. In this situation, doorphone programming is possible only after establishing call from doorphone to phone.

DPH - Doorphone using

Connection Doorphone -> Subscriber

Pressing button  , if this button is active (switched on), is signal with single, short beep. Doorphone dials PBX subscriber or group number.After answering this call by subscriber call is established. If after finishing call subscriber hang off the hanset, to doorphone command causing its disconnection is send. Call duration time is limited to 3 minutes, after this time doorphone disconnects automatically, only signaling this disconnection with two short beeps. Subscriber hears busy signal.

When after pressing button  , if subscriber doesn't answer during 3 minutes, PBX finishes calling. There is no possible to cancel call establishing.

Connection Subscriber -> Doorphone

If subscriber dials doorphone number, a call between subscriber and doorphone will be established. If after call subscriber hang off the handset, doorphone disconnects and in doorphone loudspeaker a single beep will be hears. Call duration time is limited to 3 minutes, after this time doorphone disconnects automatically, only signaling this disconnection with two short beeps. Subscriber hears busy signal.

Opening gate

Subscriber can open sn electrolock during call with doorphone by pressing button "*" on phone with DTMF dialing (while pressing this button in doorhope louspeaker an appropriate signal can be hear), after releasing this button call can be continue, electrolock stay open during time programmed in doorphone. It is also possible to program in phone memory combination ["doorphone number" pause *], this combination opens electrolock without establishing call.
Additionally it is possible to using opening door button (POD) or movement sensor.