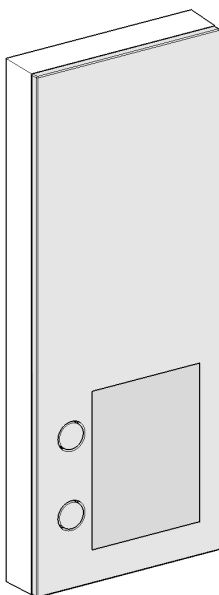


Operating and Assembly Instructions

Door Intercom System

DoorLine Slim



Telegärtner
Elektronik GmbH

1 Preface

Congratulations for purchasing the DoorLine Slim from Telegärtner.

Read through these Operating Instructions carefully and attentively. They contain important information for your safety and valuable tips and additional application options of the device. The information on usage and care should guarantee that you have many years of satisfaction with our product. Please retain all documents, also for subsequent owners.

The content of these Operating Instructions has been prepared with great care. In spite of all checks, however, there is still a possibility that technical inaccuracies and typographical errors have been overlooked. All errors that come to our notice shall be eliminated in new editions. We highly appreciate your feedback at any time if you find a mistake that we overlooked.

These Operating Instructions also use the term "device" or "door intercom system" to refer to the DoorLine Slim.

The private branch exchange system is also referred to as "PBX System".

1.1 Copyright

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Hofäckerstraße 18
74564 Crailsheim

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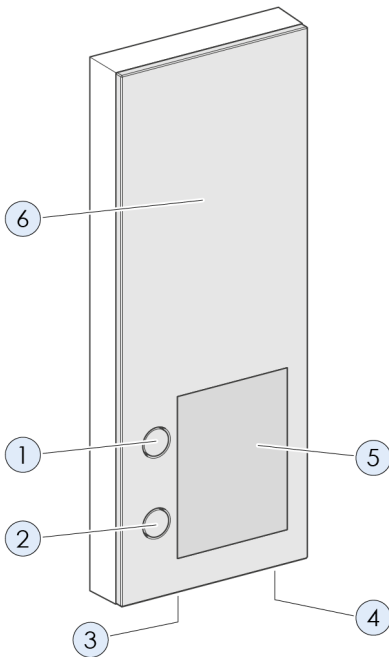
2 Safety instructions

Before installing or using the product, it is essential to observe the instructions in this manual.

If you fail to follow these instructions, the manufacturer Telegärtner Elektronik GmbH will not accept any liability for any damage resulting from negligent or deliberate disregard of the instructions in this operating manual!

- Keep small parts and packaging well away from children. There is a danger of suffocation.
- Connect the product only to equipment that supplies SELV (Safety Extra Low Voltage).
- Only connect CE-certified end devices to the telephone system.
- Do not connect devices that have equipotential bonding including earthing on the lines. Do not connect the a/b lines with an earthing conductor because this can result in damage to the device.
- Do not use damaged devices. Have a damaged device repaired immediately.
- The lines must not be installed or connected during storms. Nor is it permitted to insert or unplug the connection plug during storms.
- The housing must not be opened under any circumstances. Unauthorised opening, incorrect repairs or modification can result in dangers to the user. Warranty claims shall also be rendered void.
- Protect the product against dust, aggressive liquids and vapours.
- Do not use the product in damp rooms or in potentially explosive areas.
- Do not install your product near heat sources or other electrical devices.
- Do not permit liquid to penetrate the interior of the product. This may result in electric shock or short-circuits.
- Route connecting lines and cables such that there is no risk of accidents!

3 Product information and description



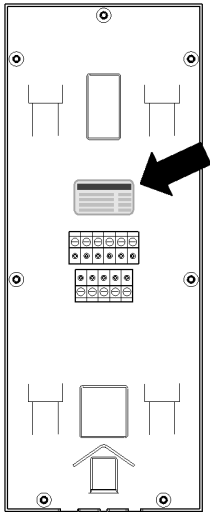
Item	Description
1	Bell pushbutton 1 (capacitance)
2	Bell pushbutton 2 (capacitance)
3	Brightness sensor
4	Microphone
5	Labelling panel
6	Loudspeaker (not visible)

3.1 Model variants

DoorLine Slim

Surface	Glass	
Colour/Article number	white	150700
	black	150710

3.2 Nameplate



The nameplate contains the serial number, product coding and information on the device type.

3.3 Specified use

DoorLine Slim is designed for connection to analogue telephone systems.

It can be used

- as an intercom
- for remote-controlled opening of doors or gates
- for relaying door conversations to telephones
- for connection to other control systems

DoorLine has been developed for private as well as commercial use.

3.3.1 Notes on the use of an electronic door opener

There is an increased risk of burglary if you connect a door opener if the relay contacts are accessible following disassembly of the DoorLine.

It is safer to configure a door opener via a SwitchBox (accessories) because this is located inside the house, which means that the relay contacts cannot be manipulated from the outside.

An electric door opener does not substitute door closure by a locking bar, it is an intelligent, additional safety feature.

It is primarily intended for daytime operation, whereas at night time or in case of absence the relevant door is locked by the locking bar.

As far as insurance is concerned, a door that is held closed only by the use of the door opener is not regarded as locked!

3.4 Technical prerequisites

- The device is designed for connection to an analogue telephone connection (a/b-Port) of a PBX system.
- Both relay switching outputs of the device connect potential-free. This means that when a door opener or a similar device is activated, it may be necessary to provide an additional bell transformer (see chapter Connecting device ▶ 16]).
- The installation of your PBX system and its operation require the use of telephone plugs (e.g. TAE or RJ11), cables and lines that are not included in the scope of supply.
- Your PBX system and end devices (telephones) must support touch-tone dialling (DTMF).

3.5 Technical data

Telecommunication technical data	Supply voltage	24 – 64 V DC
	Supply current	20 – 50 mA
	Call detection	42 - 75V 20 - 50Hz
Bell pushbuttons	Number	2
Call numbers	Number	per button 2 call numbers with 20 positions
Relay switching outputs	Relay switching output 1 Relay switching output 2	potential-free, 24 V AC / DC 1 A potential-free, 24 V AC / DC 1 A
General data	Power supply	12 V / 12 W, controlled
	Cable length for power supply	max. 10 m
	Current consumption	Standby 1 W Call state max. 5 W
	Degree of protection	IP54 (in installed state)
	Operating temperature	-20 °C to +60 °C
	Weight	450 g
Dimensions	Mounting plate	176x79 mm
	Device	220x85x21 mm

3.6 Accessories

- Wall power supply unit article number 114737
(For power supply to the DoorLine Slim)
- Wall power supply SNG DL article number 105248
(For use as bell transformer, door opener current supply, etc. Cannot be used for power supply to the DoorLine Slim!)
- Power unit for carrier rail assembly (DIN rail), article number 114651 (for voltage supply to the DoorLine Slim).
- SwitchBox SB-442
(For extension of the DoorLine Slim for a multi-party building or a home automation /domotics system.)
 - Surface mounting or assembly on carrier rail (DIN rail)
 - 4 PBX systems connectable
 - 3 Relay contacts configurable

4 Assembly and connection

4.1 For your safety

Assembly must only be carried out by specialists with corresponding skills and experience. These persons must be able to detect dangers and to avoid possible risks.

The statutory specifications at the place of installation must be observed.

Take care not to jam the connecting cables during installation.

Also observe the safety instructions at the start of the Operating Instructions.

Caution: The front panel of the device is made of glass. It can be damaged and cause injury. Protect the glass surfaces against damage.

4.2 Scope of supply

The scope of supply of the device includes:

- the device
- Assembly and Operating Instructions
- mounting plate
- sealing flange
- bag with fastening material and Allen key
- TAE adapter
- Cable RJ11 to open ends
- 2x terminals
- wall power supply

4.3 Prior to assembly

Check all parts for completeness and transport damage prior to assembly.

We recommend that you initially connect the DoorLine in the direct vicinity of your PBX system, try it out and make the basic configuration.

In this manner, you can install the wiring and configure the bell pushbutton quickly and easily.

After the DoorLine functions perfectly in this test setup with your PBX system and telephones, you can install the DoorLine in its final place of usage.

4.4 Place of installation

- The device is intended for installation outdoors in an area protected from splash water (moisture protection as per IP 54, splash water at an angle of up to 60° to the verticals).
- A minimum distance from the microphone to the nearest corner wall surface of at least 10 cm must be observed.
- The ambient temperature must be between -20 °C and +60 °C.
- In the area of the installation location, no supply lines or similar must be installed.

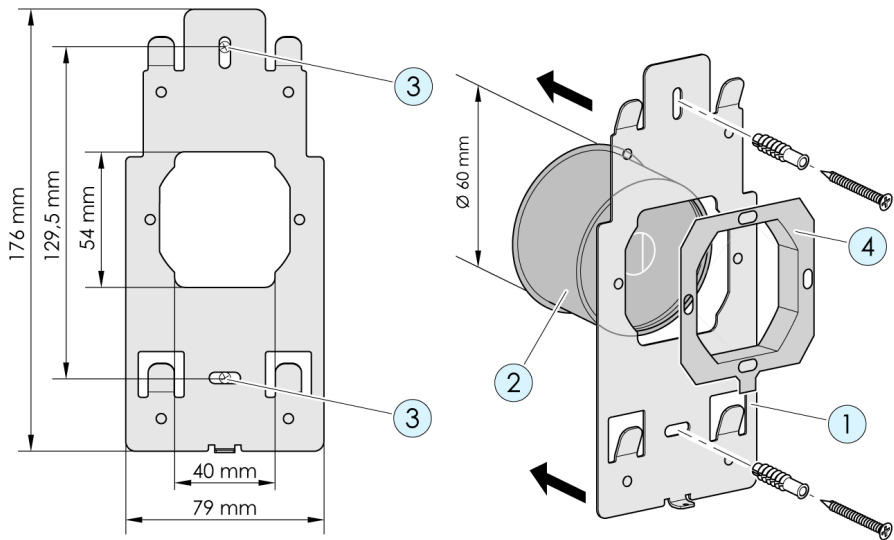
4.5 Installing device

The device is completely surface-mounted with the enclosed mounting plate and fastening material.

The device can be sealed at the top and the side with sealants such as silicone or acryl.

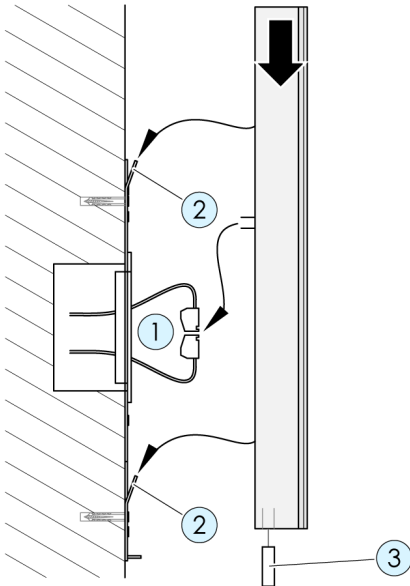
Caution: Incorrect sealing can result in the formation of moisture. This can cause damage to the device. Do not seal the device at the bottom.

4.5.1 Installing mounting plate on the wall



1. Position the mounting plate **(1)** on a standard in-wall socket **(2)** or a suitable cavity in the masonry. The recess in the mounting plate must be fitted accurately on the in-wall socket.
2. Ensure that no supply lines, cables or similar are installed in the area of the drilling holes **(3)**.
3. Fasten the mounting plate via the two boreholes **(3)** onto the wall with screws and dowels.
4. Press the sealing flange **(4)** into the recess on the mounting plate **(1)**.

4.5.2 Installing device on mounting plate



1. Connect the terminals (1) (see chapter Connecting device [▶ 16]).
2. Insert the terminals (1) back into the device.
3. Place the device diagonally from above onto the mounting plate until the four metal lugs (2) engage in the four fastening holes of the device.
4. Secure the device with the hexagon socket-grub screw (3) on the mounting plate.

Caution: Only tighten the screw lightly because otherwise the thread can be damaged.

4.6 Connecting device

4.6.1 Important notes

- Before connecting the device to the PBX system, switch off all required components (PBX system, device, bell transformer).
- When installing the wiring, ensure that the polarity (12 V DC voltage) of the two wires in the terminals is correct.
- Do not insert the wall power supply into the socket until all cables are firmly connected and there is no risk of a short circuit of wire pairs.
- A bell transformer (e.g. 12 V alternating voltage) must not be used as a power supply for the device. This can result in destruction of the device!
- Both integrated relay contacts connect potential-free, i.e. an additional bell transformer is required to activate a door opener. Then connect the bell transformer voltage via the respective relay switching output to the door opener (see chapter Connection example for a door opener and a door bell [► 20]).
- Both switching relays can be loaded to a max. of 24 V AC / DC 1 A. Prior to initial operation of the device, ensure that these values are not exceeded by your door opener, door bell or other devices to be connected. Observe the Operating Instructions of the respective products.

4.6.2 Wiring

Use commercially available telecommunication cables for the installation wiring.

Please note that in order to meet general safety provisions and to avoid interference influences, the low-current telephone lines must be routed separately from power lines.

Observe a minimum distance of 10 cm between both types of lines. If one of the connected lines is routed out-of-doors, you will have to provide sufficient lightning protection.

Lines types that can be used

- Telecommunication indoor cable
 - J-Y(ST)-Y 2 x 2 x 0.6
 - J-Y(ST)-Y 2 x 2 x 0.8
 - J-Y(ST)-Y 4 x 2 x 0.6
 - J-Y(ST)-Y 4 x 2 x 0.8
- Bell sheathed cable
 - YR 4 x 0.8
- Telecommunications cable
 - A-2Y(L)2Y 4 x 2 x 0.8

Maximum cable lengths for connection to the PBX system and to the door opener

Wire diameter		0.8 mm	0.6 mm
Ranges for voice and signal operation		320 m	140 m
Ranges for door opener operation from an external bell transformer to door opener (maximum current consumption 1A alternating voltage)	12 V	38 m	17 m
	16 V	76 m	34 m
	20 V	115 m	51 m
	24 V	177 m	78 m

Connection types

At the analogue connection of the PBX system, three connection types are usually used in Germany:

- Terminals
- RJ 11
- TAE plugs

On modern PBX systems such as the AVM Fritz!Box or Telekom Speedport, the two inner wires of the RJ 11 connection should be used.

On older PBX systems (before 2005), the two outer wires are also used.

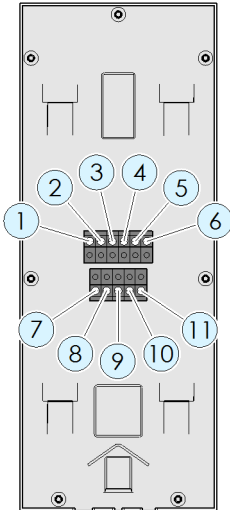
The scope of supply of the DoorLine includes a matching connecting cable for your PBX system/router. Connect the cable either via the RJ11 plug connector to your telephone system or use the enclosed TAE adapter to RJ11. The constellation you require here depends on your PBX system/router. The connecting cable has two open wire ends. Use the enclosed terminals to connect these open wire ends with your house installation for the door intercom system (a/b line).

4.6.3 Terminal assignment

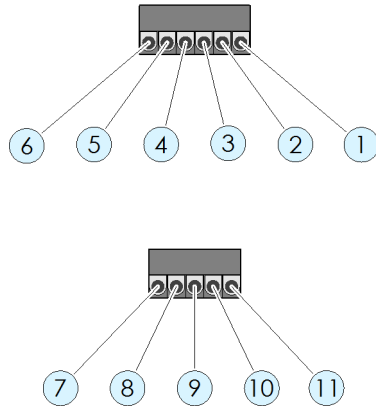
The rear side of the device has two screw-in/terminal plug-in connectors. They can be unplugged for convenient connection of the lines.

Labelling is on the rear side of the casing.

View from the rear



View of terminals



1 Supply voltage +12 V

2 Supply voltage GND

3 Relay contact 2
potential-free

4 Relay contact 2
potential-free

5 Relay contact 1
potential-free

6 Relay contact 1
potential-free

7 Extension box data

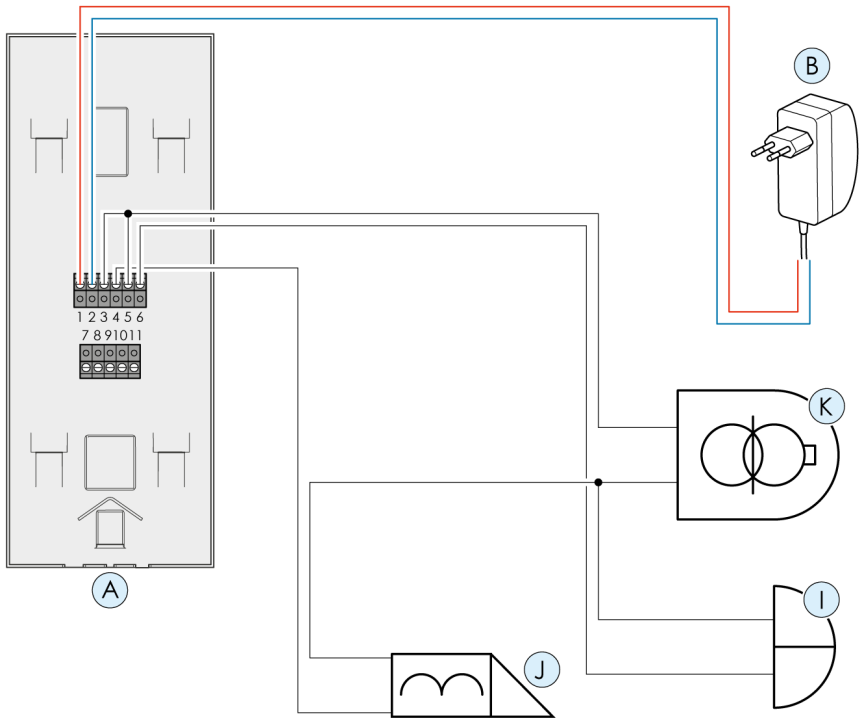
8 Extension box -

9 Extension box +

10 Telephone line La
(independent of polarity)

11 Telephone line Lb
(independent of polarity)

4.6.5 Connection example for a door opener and a door bell



Item	Description
A	Door intercom system (rear side of device)
B	Wall power supply
I	Door bell to relay contact 1
J	Door opener to relay contact 2
K	Bell transformer

4.6.6 Checking connection

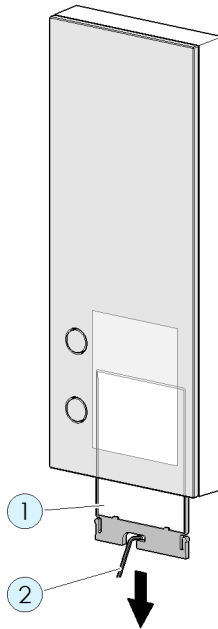
How to check whether installation was successful:

1. Apply the voltage supply.
 - ⇒ The door intercom system starts up. If the surrounding area is dark, the door intercom system lighting switches on.
2. Call the door intercom system from a telephone that is connected to your telephone system (see also Calling the door intercom system [► 54]).
 - ⇒ A double tone sounds in the telephone. The voice communication between telephone and door intercom system is then built up.

If the device does not react, disconnect it immediately from the power-supply system. Now check the connection of terminals 1 and 2 to the wall power supply for a wiring fault (e.g. reverse polarity of line).

If installation was successful, start the configuration of the device as described in the following chapters.

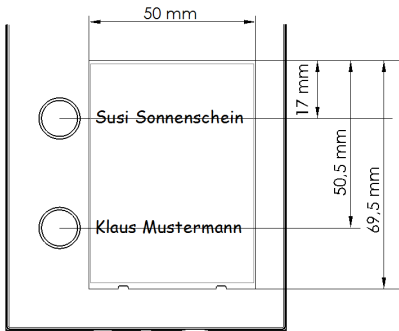
4.7 Labelling bell pushbuttons



1. Pull down the drawer (1) with the help of the enclosed Allen key (2) to remove it.
2. Remove the paper.
3. Label the paper as desired.
4. Place the paper in the drawer.
5. Push the drawer to close it.

Insertion label blank

Paper size: 50x69.5 mm



You can find our **Label Assistant** on our home page under the Product description of the device. It helps you with simple and professional labelling of the insertion label.






5 Configuration

5.1 Factory settings

The following parameters are preset ex works:

PIN code	0000
Door opener function	Blocked
Door opener time	3 seconds
Call duration	1 minute
Door call duration	30 seconds
Call number, bell pushbutton 1	11
Call number, bell pushbutton 2	12
Call reception	Reception by button redial
Configuration of relay contact 1	External gong for all bell pushbuttons
Configuration of relay contact 2	Door opener
SwitchBox	None




5.2 Restoring factory settings

1.		Enter the configuration mode (see chapter Entry to configuration mode [► 26])
2.	 	Actuate the hashtag button and star button on the telephone
3.	 	Enter configuration command "99" at the telephone
		A melody rings out. After approx. 3 seconds you hear the positive acknowledgement tone. The device is now in delivery status.

5.3 Acknowledgement tones

During programming, you will be informed about the positive and negative acknowledgement tones via the programming status.

Each note symbol corresponds to a beep:

neutral	Key input is expected	
positive	The programming has been accepted	
negative	The programming has not been accepted	

5.4 Saving and ending configuration

To end the configuration, it is sufficient to hang up the telephone receiver. The device then detects the end of the call automatically and saves the changed configuration.

5.5 Information on the entry of call numbers

Input	Effect
*	Does not result in the selection of this character but rather a dialling pause of one second
**	Results in one-time dialling of a "*" character If you reach your desired telephone via the call number "**1", you have to enter "****1" in the call number input of the DoorLine
#	The DoorLine generates a flash pulse of 100 ms
##	Results in one-time dialling of a "#" character








5.6 Entry to configuration mode

For configuration, you have to call your DoorLine with a touch-tone dialling telephone. The way you can call the DoorLine depends on the configuration of your PBX system.

When the connection to the device has been established, you can start with the configuration.

Notes

- Write down the corresponding codes for your own reference before you start the configuration.
- If the programming is rejected by the device (negative acknowledgement tone), you will have to repeat the incorrect programming step.
- If you entered the wrong PIN three times in succession, the connection is disconnected.

1		Pick up the receiver
2		Call the device
		You will hear the positive acknowledgement tone
3		Actuate the hashtag button twice on the telephone
		You will hear the neutral acknowledgement tone
4		Enter the PIN
		You will hear the positive acknowledgement and are now in programming mode

If you hear the positive acknowledgement tone, you can start with the programming. Otherwise the procedure must be repeated.

If you are in programming mode, you can carry out all configuration options one after the other.




5.7 Automatic adjustment to the PBX system

To guarantee optimum hands-free talking in all PBX systems, your device can adjust automatically to the respective system.

The adjustment takes around 3 seconds. An adjustment tone sounds during this procedure. During this period, you should not talk into the receiver because this can interfere with the automatic adjustment.



We recommend that you always carry out this step after restoring the factory settings or following a new installation.





1.		Enter the configuration mode (see chapter Entry to configuration mode [▶ 26])
2.		Actuate the hashtag button and star button on the telephone
3.		Enter configuration command "00" at the telephone
		Wait approx. 3 seconds until the adjustment tone ends.
		You will hear the acknowledgement tone. The device is now adjusted to your PBX system

After the adjustment, you can adapt the volume and the microphone sensitivity as desired.

5.8 Defining microphone sensitivity and volume










The microphone sensitivity can be adjusted in 10 stages; the loudspeaker volume in 20 stages. When the maximum or minimum possible value is reached, you will hear an acknowledgement tone. Each correct key input is confirmed by a neutral acknowledgement tone.

The following code numbers are possible:

	Code number 2 reduces the microphone sensitivity
	Code number 3 increases the microphone sensitivity
	Code number 5 reduces the loudspeaker sensitivity
	Code number 6 increases the loudspeaker sensitivity

5.9 Change the PIN Code

In delivery status, the PIN Code for the configuration is "0000". To prevent the settings of your DoorLine from being changed by unauthorised persons, you should change the PIN Code as follows:

1.		Enter the configuration mode (see chapter Entry to configuration mode [▶ 26])
2.	 	Actuate the hashtag button and star button on the telephone
3.	 	Enter configuration command "88" at the telephone
		You will hear the neutral acknowledgement tone
4.		Enter new 4-digit PIN Code
		You will hear the neutral acknowledgement tone
5.		Repeat new PIN Code
		You will hear the positive acknowledgement tone



If changing of the PIN Code is not completed with the positive acknowledgement tone, check whether the correct PIN Code was input when you entered the configuration mode. This is not checked by the DoorLine until the end of the complete procedure.



Changes to the configuration are only possible with knowledge of your PIN Code. For security reasons, enter your new PIN Code in the configuration table (see Overview of programming table).

5.10 Call numbers for bell pushbuttons






Each bell pushbutton can be assigned 2 call numbers.

With call reception by button redial, the second call number serves as an alternative number. This number is dialled if the call to the first number is not answered or the call destination is currently busy.

With call reception in direct mode, only the first call number is selected.

5.10.1 Defining call numbers for bell pushbuttons

Configuration example: Call number 1 for bell pushbutton 1:

1.		Enter the configuration mode (see chapter Entry to configuration mode [▶ 26])
2.		Actuate the hashtag button and star button on the telephone
3.		Enter configuration command for call number bell pushbutton 1 "11" at the telephone
4.		Neutral acknowledgement tone
5.		Enter call number (max. 20 digits) that is to be assigned to the bell pushbutton (see Information on the entry of call numbers [▶ 25])
		If no input is made for 5 seconds, you will hear the acknowledgement tone and the call number will be saved

The remaining call numbers are configured in the same manner. The following commands must be used to do this:

# * 1 2	Configuration of call number 2 for bell pushbutton 1
# * 2 1	Configuration of call number 1 for bell pushbutton 2
# * 2 2	Configuration of call number 2 for bell pushbutton 2

5.10.2 Deleting call numbers

You can delete a call number that is saved on a button.

Configuration example: Deleting call number 1 for bell pushbutton 1:









1.		Enter the configuration mode (see chapter Entry to configuration mode [► 26])
2.	# *	Actuate the hashtag button and star button on the telephone
3.	1 1	Enter configuration command for call number bell pushbutton 1 "11" at the telephone
4.	♪	Neutral acknowledgement tone
5.	♪♪	If no input is made for 5 seconds, you will hear the positive acknowledgement tone and the call number will be deleted

The remaining call numbers are deleted in the same manner. The following commands must be used to do this:

# * 1 2	Deletion of call number 2 for bell pushbutton 1
# * 2 1	Deletion of call number 1 for bell pushbutton 2
# * 2 2	Deletion of call number 2 for bell pushbutton 2

5.11 Enabling door opener function

For security reasons to prevent unauthorised opening, the door cannot be opened if the connection was set up from the telephone to the door intercom. This function can be deactivated if desired.

1.		Enter the configuration mode (see chapter Entry to configuration mode [▶ 26])
2.	 	Actuate the hashtag button and star button on the telephone
3.	 	Enter configuration command "04" at the telephone
		As confirmation, you will hear a neutral acknowledgement tone
4.		Enter digit 1 to enable the door opener function or
		digit 0 to block the door opener function
		Finally, you will hear the positive acknowledgement tone

5.12 Defining door opener time

Actuation time of the door opener.

Possible values: 1 to 9 seconds or deactivate with 0






Delivery status: 3 seconds

With door opening with redial #9

If relay contact 2 was defined as door opener

or

if a contact of a SwitchBox was defined as door opener with redial #9.






1.		Enter the configuration mode (see Entry to configuration mode [► 26])
2.		Actuate the hashtag button and star button on the telephone
3.		Enter configuration command "05" at the telephone
		As confirmation, you will hear a neutral acknowledgement tone
4.		Define the switching time of the door opener by entering the digits 1 to 9 (digit corresponds to the duration in seconds, 0=deactivated)
		Finally, you will hear the positive acknowledgement tone

With door opening with redial #8

If relay contact 1 was defined as door opener

or

if a contact of a SwitchBox was defined as door opener with redial #8.

1.		Enter the configuration mode (see Entry to configuration mode [▶ 26])
2.		Actuate the hashtag button and star button on the telephone
3.		Enter configuration command "03" at the telephone
		As confirmation, you will hear a neutral acknowledgement tone
4.		Define the switching time of the door opener by entering the digits 1 to 9 (digit corresponds to the duration in seconds, 0=deactivated)
		Finally, you will hear the positive acknowledgement tone






5.13 Defining call duration

Definition of the call duration for the DoorLine.

When this time has elapsed, the door conversation is disconnected automatically.

Delivery status: one minute

Possible values: 1 to 9 minutes in steps of 1 minute or 0 for "without limitation".

1.		Enter the configuration mode (see Entry to configuration mode [▶ 26])
2.		Actuate the hashtag button and star button on the telephone
3.		Enter configuration command "07" at the telephone
		As confirmation, you will hear a neutral acknowledgement tone
4.		Define the call duration by entering the digits 1 to 9 (digit corresponds to the duration in minutes, 0=without limitation)
		Finally, you will hear the positive acknowledgement tone

5.14 Defining call duration to extension line








Definition of the duration of the door call to the extension line of your PBX system.

Delivery status: 30 seconds

Possible values: 1 to 99 seconds.



The duration of the door call to the extension line can only be adjusted if the call reception is set to "button redial". If call reception is set to "direct mode", the setting of the call duration has no effect. When a bell pushbutton is actuated, the set time for the call duration starts running immediately.




1.		Enter the configuration mode (see Entry to configuration mode [▶ 26])
2.	 	Actuate the hashtag button and star button on the telephone
3.	 	Enter configuration command "08" at the telephone
		As confirmation, you will hear a neutral acknowledgement tone
4.		Enter call duration with digits 01, ... 99 (in steps of one second). The input must have two digits
		Finally, you will hear the acknowledgement tone

5.15 Defining type of call reception

Determines the way a call is received at the telephone after a bell pushbutton is pressed at the DoorLine.




5.15.1 Call reception by button redial

The voice connection between door intercom system and telephone is not established until the receiver has been picked up and a random digit key has been pressed on the telephone.

1.		Enter the configuration mode (see chapter Entry to configuration mode [▶ 26])
2.		Actuate the hashtag button and star button on the telephone
3.		Enter configuration command "70" at the telephone
		You will hear the acknowledgement tone

5.15.2 Call reception in direct mode

The voice communication between door intercom system and telephone is built up immediately after the receiver has been picked up.

1.		Enter the configuration mode (see chapter Entry to configuration mode [▶ 26])
2.		Actuate the hashtag button and star button on the telephone
3.		Enter configuration command "71" at the telephone
		You will hear the acknowledgement tone

5.16 Preparing call forwarding

Two call numbers can be saved to which door calls can be redirected as required ("pharmacy line").

With call reception by button redial, the second call number serves as an alternative number. This number is dialled if the call to the first number is not answered or the call destination is currently busy.

With call reception in direct mode, only the first call number is selected.










Call forwarding to these call numbers can be activated/deactivated for each bell pushbutton as required (see chapter Activating/deactivating call forwarding [► 55]).

Precondition for call forwarding to an external destination






The analogue extension line to which the DoorLine is connected must have an authorisation for receiving external telephone calls.

In most telephone systems this function is referred to as "direct outward dialling".

5.16.1 Defining call numbers for call forwarding

1.		Enter the configuration mode (see chapter Entry to configuration mode [► 26])
2.	 	Actuate the hashtag button and star button on the telephone
3.	 	Input of the first call number: enter configuration command "51" at the telephone or
	 	Input of the alternative number: enter configuration command "52" at the telephone
4.		Neutral acknowledgement tone
5.		Enter target call number (max. 20 digits) (see Information on the entry of call numbers [► 25])
		If no input is made for 5 seconds, you will hear the acknowledgement tone and the call number will be saved

5.16.2 Deleting call numbers for call forwarding

1.		Enter the configuration mode (see chapter Entry to configuration mode [▶ 26])
2.		Actuate the hashtag button and star button on the telephone
3.		Delete the first call number: enter configuration command "51" at the telephone or
		Delete the alternative number: enter configuration command "52" at the telephone
4.		Neutral acknowledgement tone
5.		If no input is made for 5 seconds, you will hear the positive acknowledgement tone and the call number will be deleted

5.17 Configuring relay contacts





The two relay contacts can be used






- as a door opener or
- to activate a door gong.

Each contact can be assigned to one or both bell pushbuttons.

The relay contact is connected when a bell pushbutton is pressed. The contact remains connected as long as the bell pushbutton is pressed.

5.17.1 Configuration of relay contact 1





1.		Enter the configuration mode (see chapter Entry to configuration mode [▶ 26])
2.		Actuate the hashtag button and star button on the telephone
3.		Enter configuration command "61" at the telephone
		Neutral acknowledgement tone
4.		Enter switching command in accordance with the following table
		You will hear the positive acknowledgement tone as confirmation






Switching command	Bell push-button		Redial	Comments
	1	2		
0	-	-		Relay contact 1 connects with redial of #8 during voice communication.
1		-	-	
2	-		-	
3			-	Factory setting.

Example: you wish to assign a door gong to relay contact 1. The door gong is to sound when bell pushbutton 2 is pushed. After entry to configuration mode, enter the following: #*61J2JJ

5.17.2 Configuration of relay contact 2

Configuration of relay contact 2








1.		Enter the configuration mode (see chapter Entry to configuration mode [▶ 26])
2.		Actuate the hashtag button and star button on the telephone
3.		Enter configuration command "62" at the telephone
		Neutral acknowledgement tone
4.		Enter switching command in accordance with the following table
		You will hear the positive acknowledgement tone as confirmation

Switching command	Bell push-button	Bell push-button	Redial	Comments
	1	2	#9	
0	-	-		Relay contact 2 connects with redial of #9 during voice communication. Factory setting.
1		-	-	
2			-	
3			-	

6 Configuration of SwitchBox
















A SwitchBox SB-442 can be connected to the door intercom system. This makes it possible to operate two separate housing units with separate telephone systems. The SwitchBox SB-442 provides three additional configurable relay contacts.

6.1 Registering SwitchBox

1.		Enter the configuration mode (see Entry to configuration mode [▶ 26])
2.	 	Actuate the hashtag button and star button on the telephone
3.	 	Enter configuration command "01" at the telephone
		As confirmation, you will hear a neutral acknowledgement tone
4.		Enter digit 1 to register the SwitchBox SB-442 or Enter digit 0 if no SwitchBox is to be used
		Finally, you will hear the positive acknowledgement tone

6.2 Defining PIN Code for SwitchBox

For security reasons, communication between the DoorLine and the SwitchBox is protected by a PIN Code. In delivery status, the PIN Code for the SwitchBox is "0000". In order to use the SwitchBox, this PIN Code must be changed. The PIN Code must be between 4 and 12 characters long and must only contain numeric characters.

1.		Enter the configuration mode (see Entry to configuration mode [▶ 26])
2.	 	Actuate the hashtag button and star button on the telephone
3.	 	Enter configuration command "02" at the telephone
		As confirmation, you will hear a neutral acknowledgement tone
4.		Enter the previous PIN Code (factory setting "0000")
5.		Actuate the hashtag button on the telephone
		You will hear the neutral acknowledgement tone
6.		Enter the new PIN Code ("0000" will not be accepted)
7.		Actuate the hashtag button on the telephone
		You will hear the neutral acknowledgement tone
8.		Enter the new PIN Code
9.		Actuate the hashtag button on the telephone
		If the new PIN Code was saved in the SwitchBox, you will hear the positive acknowledgement tone. This can take a few seconds or
		If an error occurred, you will hear the negative acknowledgement tone (8 short beeps). After the third unsuccessful attempt, the connection is disconnected. The procedure must be repeated starting at point 1








A PIN Code for the SwitchBox can only be entered if the SwitchBox was previously registered (see Registering SwitchBox [▶ 41]).






6.3 Assigning telephone system connection to a bell pushbutton

Define which telephone system connection of the SwitchBox is to be used when the bell pushbuttons are actuated.

Defining telephone system connection, bell pushbutton 1

1.		Enter the configuration mode (see Entry to configuration mode [▶ 26])
2.		Actuate the hashtag button and star button on the telephone
3.		Enter configuration command "13" at the telephone
		As confirmation, you will hear a neutral acknowledgement tone
4.		Select telephone system connection of the SwitchBox by entering the digit 1 or 2
5.		You will hear the acknowledgement tone

Defining telephone system connection, bell pushbutton 2

1.		Enter the configuration mode (see Entry to configuration mode [▶ 26])
2.		Actuate the hashtag button and star button on the telephone
3.		Enter configuration command "23" at the telephone
		As confirmation, you will hear a neutral acknowledgement tone
4.		Select telephone system connection of the SwitchBox by entering the digit 1 or 2
5.		You will hear the acknowledgement tone

6.4 Configuring SwitchBox relay contacts







The three relay contacts can be used






- as a door opener or
- to activate a door gong.

Each contact can be assigned to one or both bell pushbuttons.

The relay contact is connected when a bell pushbutton is pressed. The contact remains connected as long as the bell pushbutton is pressed.

6.4.1 Configuring SwitchBox relay contact 1

1.		Enter the configuration mode (see chapter Entry to configuration mode [► 26])
2.	 	Actuate the hashtag button and star button on the telephone
3.	 	Enter configuration command "63" at the telephone
		Neutral acknowledgement tone
4.		Enter switching command in accordance with the following table
		You will hear the positive acknowledgement tone as confirmation

Switching command	Bell push-button	Bell push-button	Redial	Comments
	1	2	#8/9	
0	-	-		Relay contact 1 connects with redial of #9 during voice communication. Factory setting.
1		-	-	
2	-		-	
3			-	







Switching command	Bell push-button	Bell push-button	Redial	Comments
	1	2	#8/9	
4	-	-		Relay contact 1 connects with redial of #8 during voice communication.







6.4.2 Configuring SwitchBox relay contact 2

1.		Enter the configuration mode (see chapter Entry to configuration mode [▶ 26])
2.		Actuate the hashtag button and star button on the telephone
3.		Enter configuration command "64" at the telephone
		Neutral acknowledgement tone
4.		Enter switching command in accordance with the following table
		You will hear the positive acknowledgement tone as confirmation

Switching command	Bell push-button	Bell push-button	Redial	Comments
	1	2	#8/9	
0	-	-		Relay contact 2 connects with redial of #9 during voice communication.
1		-	-	Factory setting.
2	-		-	
3			-	
4	-	-		Relay contact 2 connects with redial of #8 during voice communication.

6.4.3 Configuring SwitchBox relay contact 3

1.		Enter the configuration mode (see chapter Entry to configuration mode [► 26])
2.	 	Actuate the hashtag button and star button on the telephone
3.	 	Enter configuration command "65" at the telephone
		Neutral acknowledgement tone
4.		Enter switching command in accordance with the following table
		You will hear the positive acknowledgement tone as confirmation

Switching command	Bell push-button 1	Bell push-button 2	Redial #8/9	Comments
0	-	-		Relay contact 3 connects with redial of #9 during voice communication.
1		-	-	
2	-		-	Factory setting.
3			-	
4	-	-		Relay contact 3 connects with redial of #8 during voice communication.

7 Overview of programming table

The following table contains an overview of all programming commands. For these programming commands, prior entry to configuration mode via the PIN code is required.

When entering call numbers, note the Information on the entry of call numbers [► 25].

Programming command	Own settings	Description
##<PIN Code>		Entry to configuration mode. Factory setting of PIN Code: 0000
#*00		Automatic adjustment to PBX system
#*01 <SwitchBox>		SwitchBox: 0=no SwitchBox 1=use SwitchBox
#*02 <PIN old>#<PIN new>#<PIN new>#		Change PIN Code for Switch-Box
#*04 <Door opener function>		Door opener function: 0=disabled 1=enabled Factory setting: disabled
#*05 <Door opener time>		Switching time for door opener: 1 to 9 seconds or 0 (door opening not possible) Factory setting: 3 seconds
#*07 <Call duration>		Defining maximum call duration: 1 -9 minutes or 0=without limitation Factory setting: 1 minute
#*08 <Call duration>		Call duration to extension line: 01-99 seconds (double-digit entry) Factory setting: 30 seconds
#*11 <Call number>		Call number to be called from bell pushbutton 1

Programming command	Own settings	Description
#*12 <Call number>		Alternative number to be called from bell pushbutton 1
#*13 <1 or 2>		Assign SwitchBox telephone system connection to bell pushbutton 1
#*21 <Call number>		Call number to be called from bell pushbutton 2
#*22 <Call number>		Alternative number to be called from bell pushbutton 2
#*23 <1 or 2>		Assign SwitchBox telephone system connection to bell pushbutton 2
#*51 <Call number>		Call number to be called during active call forwarding
#*52 <Call number>		Alternative number to be called during active call forwarding
#*61 <Command 0-3>		Configuration of relay contact 1. See Configuring relay contacts [▶ 39]
#*62 <Command 0-3>		Configuration of relay contact 2. See Configuring relay contacts [▶ 39]
#*63 <Command 0-4>		Configuration of SwitchBox relay contact 1. See Configuring SwitchBox relay contacts [▶ 45]
#*64 <Command 0-4>		Configuration of SwitchBox relay contact 2. See Configuring SwitchBox relay contacts [▶ 45]
#*65 <Command 0-4>		Configuration of SwitchBox relay contact 3. See Configuring SwitchBox relay contacts [▶ 45]
#*70		Call reception by pushbutton (factory setting)

Programming command	Own settings	Description
#*71		Call reception by direct mode
#*88 <PIN><PIN>		Enter new PIN code twice
#*99		Reset to factory setting
2		Reduce microphone sensitivity
3		Increase microphone sensitivity
5		Reduce loudspeaker volume
6		Increase loudspeaker volume

Ending programming









Hang up the receiver
or enter #0.

8 Everyday use






8.1 Receiving a door call

A bell pushbutton at the door intercom system is pressed.
The saved call number is called.
The telephone of the called connection rings.




With presetting "Call reception by pushbutton"

1.		Pick up telephone. An attention tone (beep) indicates a call from the door intercom system
		Actuate a random numeric key
		Voice communication is established
2.		Simply hang up the receiver to end the voice communication or
		enter digits #0 (disconnects the connection immediately) or
		the maximum call duration is reached. The connection is then disconnected automatically

With presetting "Call reception in direct mode"

1.		Pick up telephone
		Voice communication is established directly
2.		Simply hang up the receiver to end the voice communication or
		enter digits #0 (disconnects the connection immediately) or
		the maximum call duration is reached. The connection is then disconnected automatically

8.2 Opening a door

1.		A door call takes place
2.		enter button command #8 (if relay contact 1 is set as door opener) or
		Enter button command #9 (if relay contact 2 is set as door opener)
		The door opener is activated





Important:

- In delivery status of the DoorLine, the door cannot be opened from the telephone during a call setup. If this security measure is not required, it can be cancelled by a corresponding configuration (see chapter Enabling door opener function [▶ 31]).
- The time duration for the electric door opener can be set from 1-9 seconds (see chapter Defining door opener time [▶ 32]).




8.3 Calling the door intercom system

The door intercom system can also be called directly.

Setting up connection

1.		Pick up telephone
2.		Enter the call number of your door intercom system
		You will hear the acknowledgement tone
		Voice communication is established

Ending connection

1.		Simply hang up the receiver to end the voice communication or
		enter digits #0 (disconnects the connection immediately) or
		the maximum call duration is reached. The connection is then disconnected automatically



In case of loud interfering noise, it is possible that the connection is not disconnected immediately. In this case, use option #0 to disconnect the connection. The connection is then disconnected after the defined time.

8.4 Activating/deactivating call forwarding









Example:

You leave the house and are expecting a parcel service or important visitor. When you leave your house, you can now simply forward the door call to your mobile telephone or another telephone.









Prerequisites:

The call numbers for call forwarding must be defined in advance (see chapter Preparing call forwarding [▶ 37]).

Activating call forwarding

1.		Pick up telephone
2.		Call the door intercom system
		You will hear the acknowledgement tone
3.		Press the hashtag button
4.		Enter digit (1-2) for the relevant bell pushbutton
5.		Enter digit 1 for activation
		You will hear the acknowledgement tone. Forwarding is active
6.		Hang up the receiver

Deactivating call forwarding

1.		Pick up telephone
2.		Call the door intercom system
		You will hear the acknowledgement tone
3.		Press the hashtag button
4.		Enter digit (1-2) for the relevant bell pushbutton
5.		Enter digit 0 for deactivation
		You will hear the acknowledgement tone. Forwarding is deactivated
6.		Hang up the receiver

8.5 Direct commands during voice communication

During a door call, you have the following additional input options on your telephone:

# 0	Disconnects the connection immediately. Door intercom system moves to standby
# 1 0	Deactivate call forwarding pushbutton 1
# 1 1	Activate call forwarding pushbutton 1
# 2 0	Deactivate call forwarding pushbutton 2
# 2 1	Activate call forwarding pushbutton 2
# 8 or # 9	<p>Activates the door opener</p> <p>Function is only available if</p> <ul style="list-style-type: none"> ▪ a relay contact is configured as door opener and <ul style="list-style-type: none"> – the door call was set up by the door intercom system or – the door opener function was enabled in the configuration of the door intercom system

Important:

The contacts can only be switched via these direct commands if they have been assigned the function "Redial" in the configuration.

9 Malfunctions and fault elimination

The following table contains the most frequently occurring malfunctions and their correction. In case of further malfunctions, please contact your specialist dealer or our technical Hotline (see rear side of device).

No function	No operating voltage	Check installation. Check Connections at the terminals for correct connection order.
Button lighting present but no function	DoorLine is not connected to the telephone system	Connect DoorLine in accordance with Assembly and Operating Instructions to the telephone system
Incorrect bell signalling No dialling	Incorrect programming of the call numbers for the bell pushbuttons	Check programming of buttons, repeat if necessary
Voice communication is not established after picking up the telephone	Call reception by button is programmed (factory setting)	Activate "Direct mode" is desired

10 Maintenance, care and disposal

10.1 Cleaning

Caution: Unsuitable cleaning agents can damage the surface of the device.

Clean the device with a soft, slightly damp cloth. Never use hard objects or scouring or aggressive cleaning agents.

10.2 Storage

If the device is not installed, store it in a condensate-free area at an ambient temperature of -20 °C to +60 °C.

10.3 Disassembly

Prior to disassembly of the device, de-energise all components used.

Proceed in reverse sequence to assembly (see Installing device on mounting plate [▶ 15]).

10.4 Disposal

10.4.1 Disposing of packaging material

All packaging materials are environmentally compatible and recyclable. The packaging material can be returned to the sales outlet or the local collection centres for used paper and plastic materials.

10.4.2 Disposing of old device



The product belongs to the category electrical and electronic equipment. In accordance with the EC Directive 2012/96/EC, it must not be disposed of together with household waste but must be delivered to the local return system for electrical and electronic equipment.







Technical Hotline

If you have questions on the operation or configuration of your DoorLine that cannot be answered in these Operating Instructions, please contact your specialist dealer.

If your specialist dealer cannot help, our Hotline is at your disposal.

Usage of the Hotline incurs the normal connection costs.

Telegärtner Elektronik Hotline

Tel.:	+49 7951 488 9200
Monday-Thursday:	7:00 - 16:30 hours
Friday:	7:00 - 13:00 hours
service@telegaertner-elektronik.de	

Issued by / Manufacturer:

Telegärtner Elektronik GmbH
Hofäckerstraße 18
D-74564 Crailsheim
+49 7951 4880

www.telegaertner-elektronik.de
info@telegaertner-elektronik.de



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and Assembly Instructions

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