

Small Exchange for Doorphone

SED-111



User Guide

1 Feature

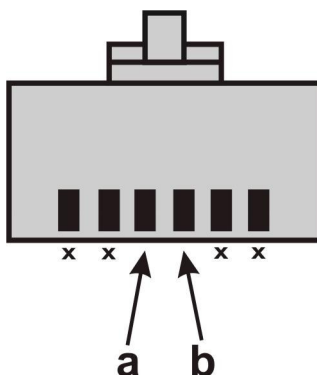
Small Exchange for Doorphone SED-111 is a simple connection device that allows to connect doorphone between existing analog phone line and analog telephone.Equipment.

SED-111 is mainly determined for use in a small house or apartment where you easily connect doorphone.

SED-111 device allows communication phone with the public line and telephone communication with communicator at the door (doorphone). It also allows programming parameters in doorphone.

2 Connection and installation

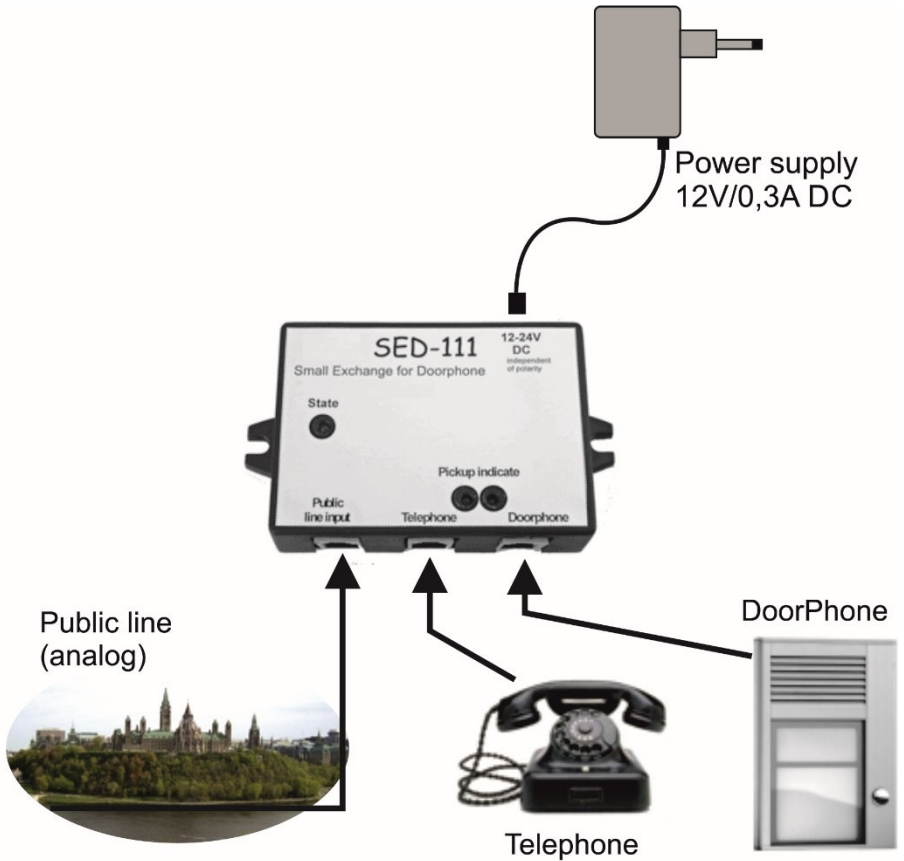
Connection and installation process is very simple. Telephone line (public), telephone and doorphone is connected via RJ11 telephone connectors. Connector wiring is shown:



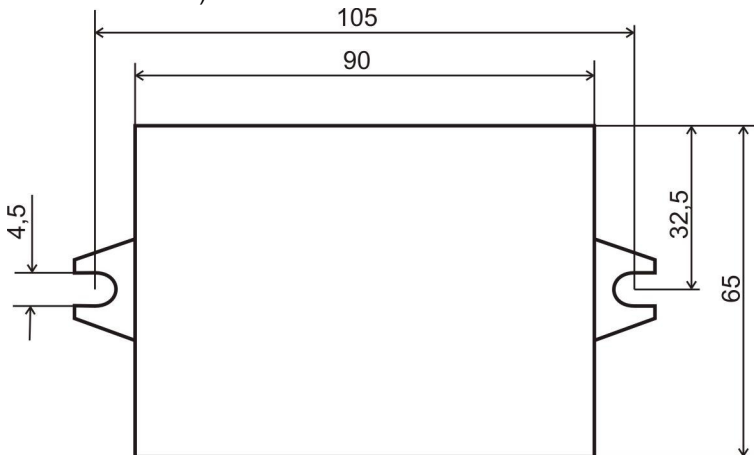
For each RJ-11 connection is fixed and is written on the label, which device / line is connected to which connector.

Still remains to connect a power supply 12V-24V, consumption does not exceed 0.3A.

The connection is shown in Figure:



Installation is possible freely positioned, or bolt on the wall or pad, drawing boxes is (dimension in mm):



3 Service and operation

- ☒ - green LED light - idle status device
- ☒ - red LEDs inform about pick up lines by lighting

3.1 Phone and public line

- ☒ - green LED slowly flashing

Phone call to the public line - pick up the phone and dialing telephone numbers as normal (without changes), the connection end by hang up the phone.

Public line ringing to the phone - pick up the phone and normal speak, the connection end by hang up the phone.

When someone causes to **doorphone call**, so this **is signaled** to the call with the public line. This you are notified that someone is at the door (visit).

3.2 Phone and doorphone

- ☒ - green LED quickly flashing

Doorphone call to the phone - visitor at the door presses the button doorphone (it does not matter on phone number, because it detects only pick up the doorphone) begins to ring the phone. If the phone is picked up, it is in connection with a doorphone call is in progress with the person at the door.

In connection with the doorphone can dial DTMF code from the phone switch the relay to open the door.

If it hangs up the phone, so a device SED-111 will automatically generate a busy tone for doorphone and it also hangs up.

Phone call to the doorphone - this procedure is little specific and mainly serves for the possibility of programming parameters in doorphone, or to call for the door.

Procedure make this call:

1. pickup the phone
2. up to 10sec after pickup press 3 times Flash (Recall) or 3 times "1" in pulse dial on telephone
3. hangup the telephone, telephone begins to ring
4. if ring signal miss, so pickup the telephone - connection with doorphone

Now you can either talk to the doorphone or dialing immediately DTMF password for programming parameters in doorphone (default is # 0000).

If it hangs up the phone, so a device SED-111 will automatically generate a busy tone for doorphone and it also hangs up.

4 Technical parameters

Parameter	Value	Conditions
Power supply - voltage	12-24V	DC, independent of polarity
Power supply - current	max. 0,32A	12V
	max. 0,16A	24V
Sensitivity of ringing detection	min. 10 – 25 V	20-60Hz
Impedance ring detector	100n+2,2Kohm	
Public line current detection	min. 8mA	$U_{line} > 15V$
Line current for doorphone	min. 25mA	
Line current for telephone	min. 40mA	
Insertion Loss public line - telephone	< 1dB	1KHz, 600ohms
Insertion Loss doorphone - telephone	< 3dB	1KHz, 600ohms
Ring generator voltage	min. 55V _{p-p}	at 10mA load
Ring generator waveform	rectangle	
Flash (pulse dial 1) - pulse - space	min. 80ms / max. 400ms	
	min. 200ms	
Dimension in [mm]	112 x 65 x 22	
Operation temperature	- 20 to + 50 st	