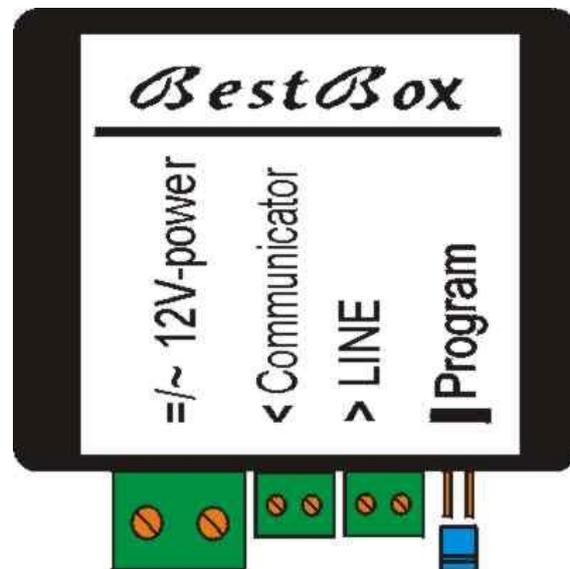


# BestBox



User Guide

## Functionality

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The BestBox is simple box guarding telephone line voltage and when line voltage is strong then Best box connect this phone line to other device in delay. This feature can be effectively used in Siemens PBXs when you use on analog extension products powered from this line.

Exact case of use is PBX Door phone powered from the line. The PBX from saving energy reasons testing its lines and up certain rulls those extensions disconnect from power supply. In other case after PBX reset (for example: power supply failure, restart, etc...) the PBX test all lines and where detects any consumption on the line then put it out of order. The Door phone powered from the line has consumption because charging his operation capacitors and also make restarts. In those cases the door phone powered from the line going out of order until somebody doesnt disconnect and connect again the line.

The BestBox monitor permanently voltage on the line. When voltage decrease then Bestbox disconnect the line and connect door phone to own power supply. It still monitor the line and when voltage increase on the line then start time protection (default 10sec) and line is connected again.

Next status is after power supply connection. After connection of 12V to BestBoxu is line disconnected . Connected Door phone which is powered from the line is now powered from power supply of BestBox. It means that charging of operational capacitors as same as starting procedure is not processed on PBX extension which is disconnected. When PBX line has strong voltage then is time protection in operation (default 10sec) and after is connected PBX ine to Door phone. The time protection is min 10 sec to have enough time for charging and get to stand by mode. The time protection is adjustable (max. je 4min)

## 1 Wiring

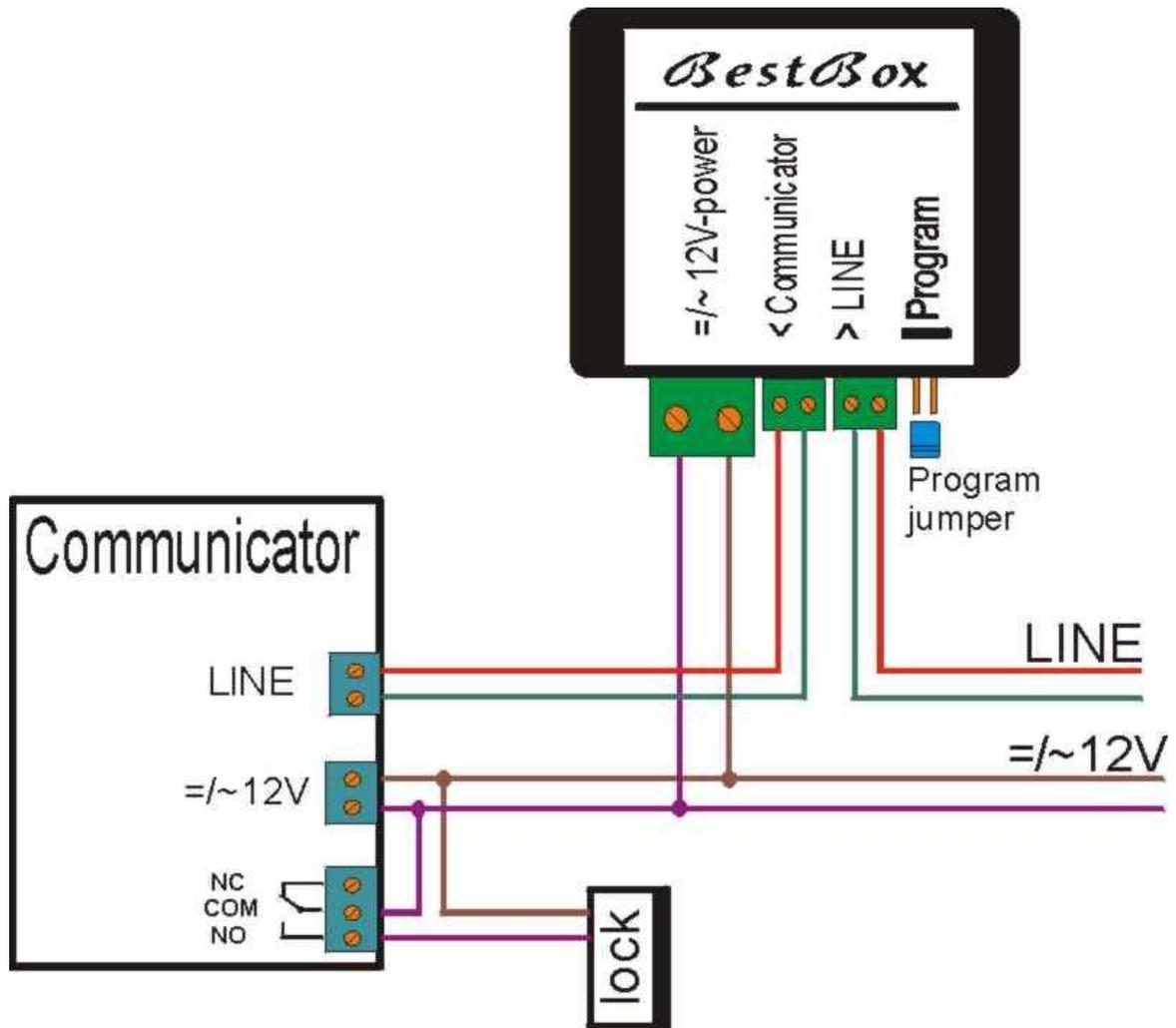
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The wiring is easy. You have to interrupt incoming PBX line and lead power supply 12V. The BestBox is designed by appropriate connectors for easy installation.

Incoming PBX line is necessary to interrupt and put on both ends connectors 3.55mm (smaller ones) . Then connect to BestBoxu.

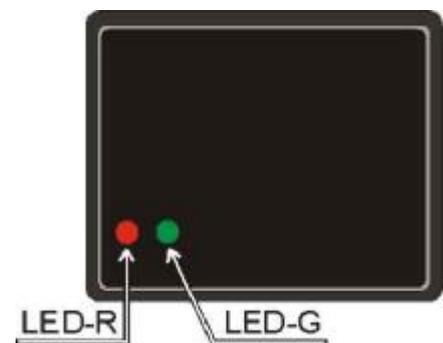
Power supply 12 V is connected via connector 5mm (bigger one) and you can easily use power supply from electrical lock.

It not depends on polarity at all connections. Tle power supply can be either AC 10V-15V or DC 12V-20V.



## 2 LED indication

The BestBox status is indicated by red and green LED. The red LED indicates low voltage on line. The each status is described in below table.



<b>BestBox status</b>	<b>LED-R – red</b>	<b>LED -G - green</b>
<b>After switch ON:</b>		
Operation	4 x flashing differently	
Programming	4 x flashing in same time	
<b>Operation:</b>		
Stand by status, all is O.K.	OFF	Flashing slowly
Low voltage on line	Lighting	Flashing quickly
Time protection running	OFF	Flashing quickly
<b>Default setting – close jumper during operation</b>		
After jumper closing	Light up voltage line	Flashing go slower
Values rewriting	Lighting	Lighting
<b>Programming mode – close jumper and connect power supply</b>		
1. voltage is on line	OFF	Flashing slowly
2. voltage decrease (PBX restart)	Lighting	Flashing go quicker
3. voltage occurs on line again	Flashing very quickly	Permanently lighting

### 3 Programming

Programming is useful only at the moment when its default parameters doesn't fit in installation with exact PBX type. Programming is half-automatic and the case is to measure feedback from PBX restart (start).

#### **Start programming mode:**

- The PBX is connected to BestBox and its switch ON (red LED-R on BestBox is OFF)
- Disconnect 12V from BestBox
- Close programming contact (jumper)
- Connect 12V – LED indicates by same flash programming mode
- LED lights up table – item 1. of programming

#### **Recording of new values:**

- Switch OFF the PBX
- Switch ON the PBX (restart)
- LED lights up table – item 2. of programming

#### **Saving new values to memory:**

- LED lights up table – item 3. of programming = programming mode is over
- Remove contact (jumper) and BestBox automatically goes to operation mode

Note: When PBX restart is quicker than 10 seconds the new value is 10 seconds.

#### **3.1 Default setting (erasing of presetting values)**

In operation mode close programming contact (jumper) for cca 5sec. After jumper closing the LED-G green flashing goes slower. After rewriting of all parameters the both LEDs light permanently. After removal of jumper the BestBox continues in standard operation. (stand by).