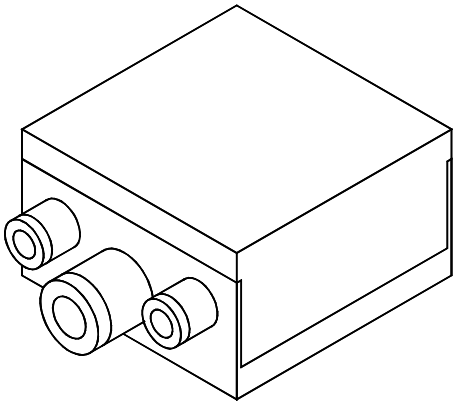
TOA

Instruction Manual

SWITCH-OVER BOX

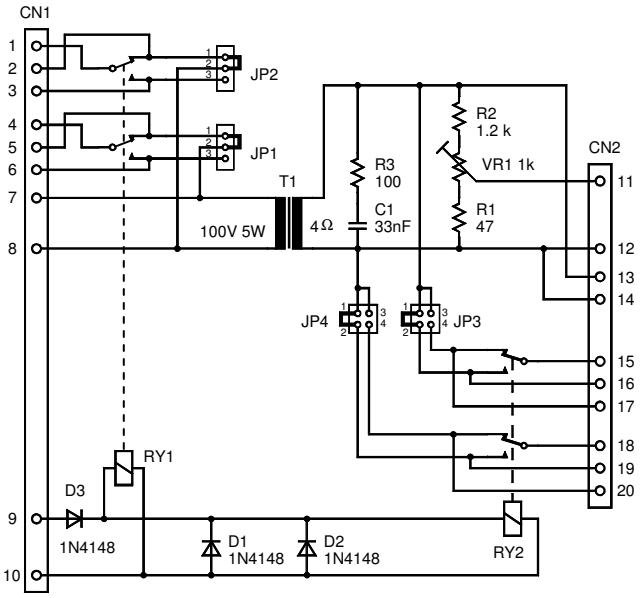
SOB-1



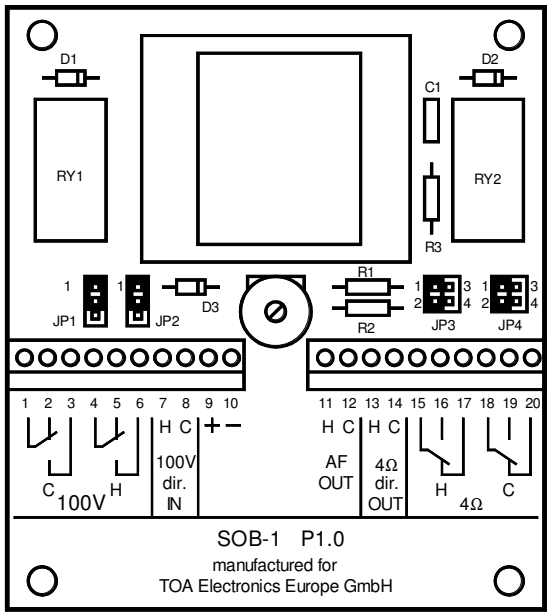
■ DESCRIPTION

The switch-over box can be used to switch over a local PA to a central PA system, or to supply a line level signal into a local PA amplifier with priority. 4 switch over contacts are available for priority control and switching over speakers. A low impedance speaker can be connected to a 100 volts line via a build-in 5 watts transformer.

■ SCHEMATICS



■ PCB LAYOUT

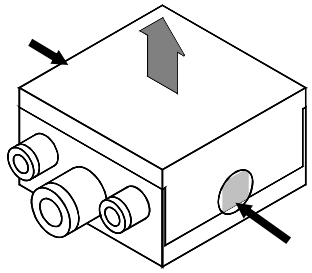


■ SPECIFICATIONS

Audio Input	100 V AC, max. 5W
Audio Output	5 W into 4 ohms 100 mV ... 2V into 10 kohms (adjustable)
Switching Load Relays	100W (100 V AC, 1A)
Relay Voltage	24 V DC, 16 mA
Dimensions (H x W x D)	60 x 100 x 100 mm (without cable inlet) 60 x 100 x 123 mm (with cable inlet)

■ OPENING OF THE SWITCH-OVER BOX

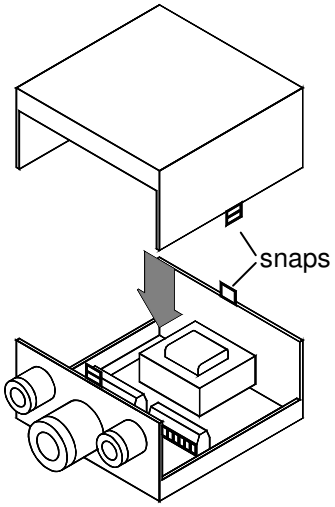
You can pull off the top cover by depressing lightly on both sides at the place indicated in the drawing. This will loosen the catches.



■ CLOSING OF THE SWITCH-OVER BOX

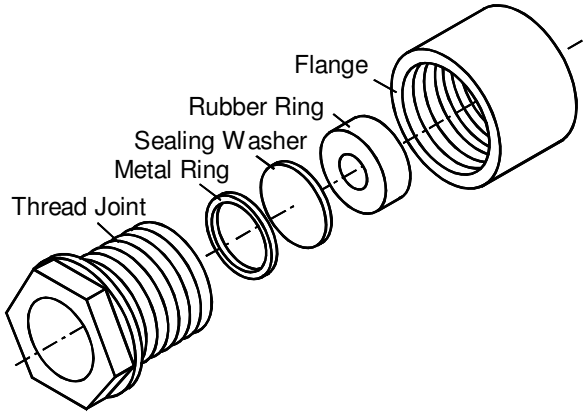
Push the top cover onto the top of the housing. Take care that

- the grooves mesh with each other,
- the snaps are on inner side and
- the top cover snaps in audible.



■ MECHANICAL CABLE FIXING

The switch-over box is equipped with 3 cable inlets:
two for max. 9 mm and one for max. 13.5 mm cable diameter.



1. Turn off the thread joint and remove all parts inside the flange.

   Remark: the sealing washer will not be used in the further steps.

2. Push the parts thread joint, ring and rubber ring in this order onto the cable (refer also to the drawing). Push these parts close together and let the cable's end have a length of 20 - 30 cm.
3. Push the cable into the flange until the parts touch the flange's inner end.
4. Fasten the thread joint by turning clockwise.

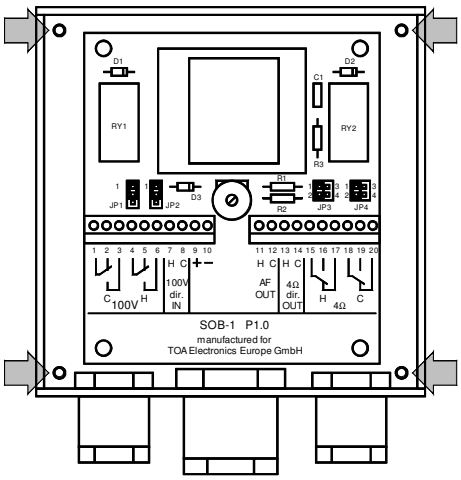
■ INSTALLATION OF THE SWITCH-OVER BOX

There are 4 holes on the housings bottom (indicated by arrow). These can be used to fix the box on a surface (e.g. wall) by screws.

The switch-over box can be fixed in each position.

HINT: Sprinkling water protection

The housing can be sealed (against water) by closing the grooves and fixing holes by packing compound. The rubber rings of the cable inlets must be used for this purpose.



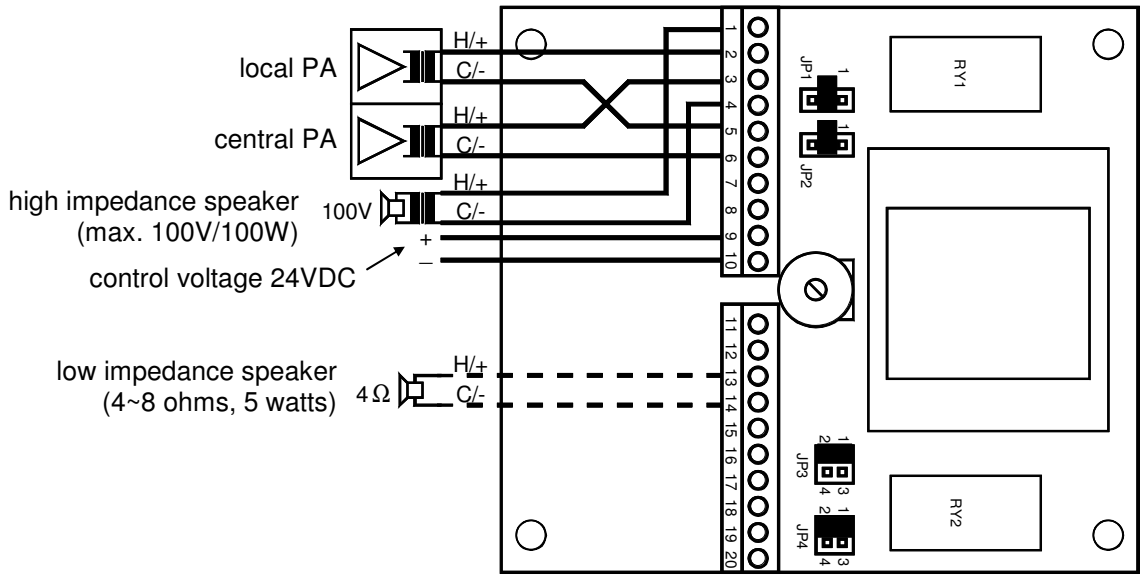
■ APPLICATION EXAMPLES

<u>Important Advise</u>: Do not forget to set the jumpers (JP1, JP2, JP3, JP4) as shown in the examples, otherwise it may cause a damage of connected amplifiers!

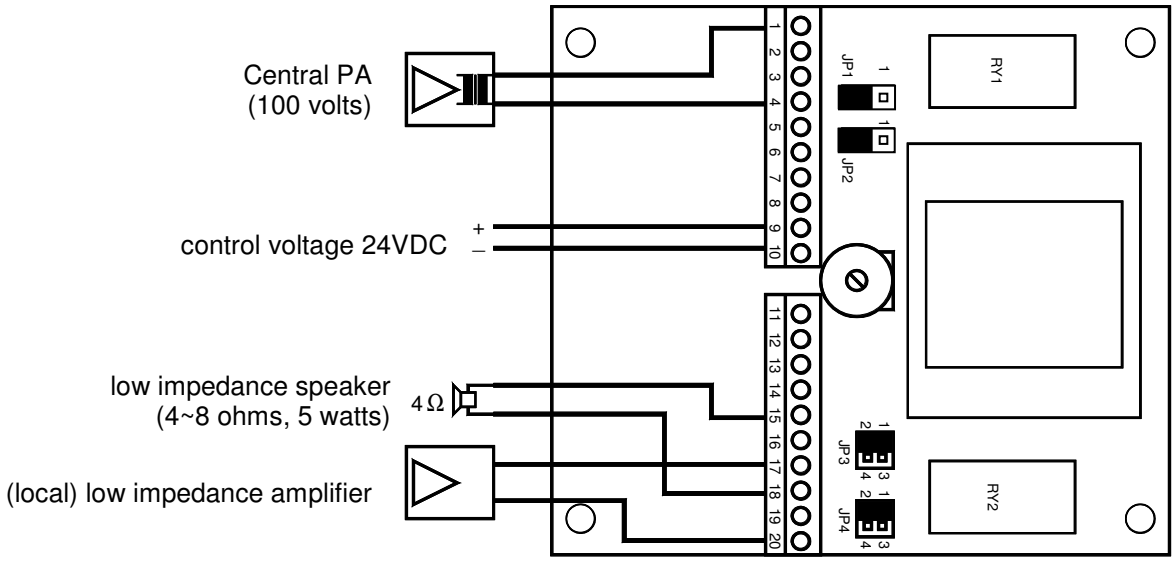
1. Switch-Over A 100-Volts Line From A Local PA To A Central PA

If a low-impedance speaker shall be driven at connectors 13 + 14, then the following modifications must be done depending on the application (3):

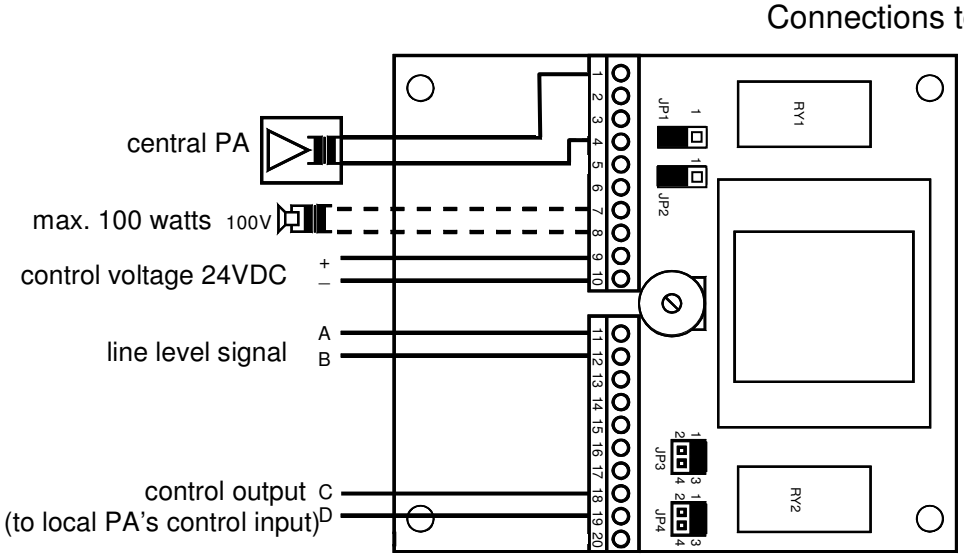
1. same signal as (local) high impedance speakers: add a wire each between the connections 1 to 7 and 2 to 8
2. only the signal from the local PA: set the jumpers JP1 and JP2 on position 1-2
3. only the signal from the central PA: set the jumpers JP1 and JP2 on position 2-3



2. Switch-Over Of A Low Impedance Speaker From A Local (Low Impedance) Amplifier (e.g. TV) To A 100-Volts Line Of A Central PA

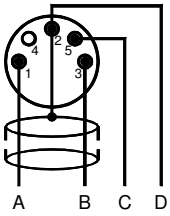


3. Connection Of A 100-Volts Line (Coming from Central PA) To A Line Input Of A Local PA

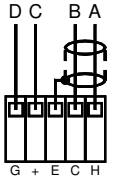


Connections to TOA Amplifiers:

VP-, PA-3640VB:
PRIORITY



VM-2000:
TEL PAGING



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