Transistor T-SIGN Active Loop User Manual

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Loop User Manual

Transett T-SIGN

Manual

Transistor

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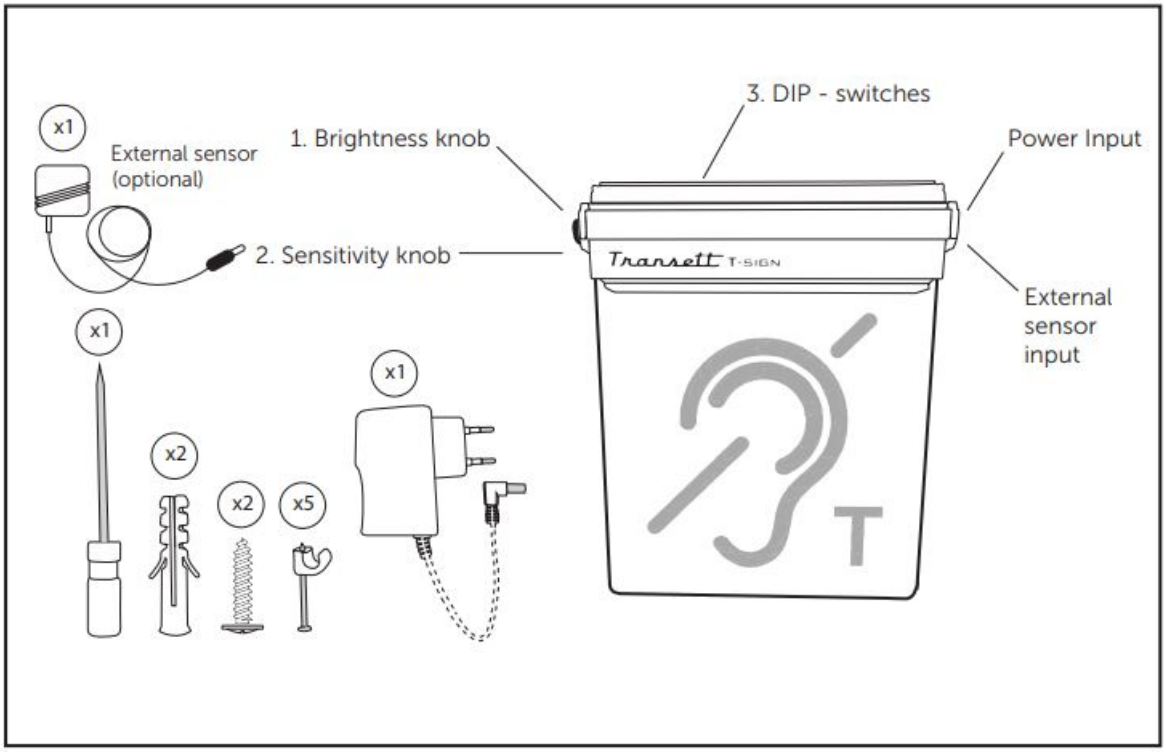
User Manual for Transett T-SIGN

What's in the box



About Transett T-SIGN

T-SIGN, the active hearing loop indicator is designed to indicate how a hearing loop functions. T-SIGN is programmed with various
kinds of indications that according reflect how well the sound level is transmitted via the loop.

Set up/ Installation instructions for Transett T-SIGN

Normal operation mode

In order to run T-SIGN in normal operation mode just start it up by plugging in the power and let it run its startup sequence for approx. five seconds. During the startup sequence it indicates which program it runs by the number of green flashes it does. Program one gives one flash and program two gives two flashes (see below for program characteristics).

No signal: T-SIGN is dark
Weak signal: Flashes green in a soft manner
Normal signal: Steady green light
Strong signal: Steady red light

Installation (Refer to the enclosed Quick Guide)

1. Preparations before the set-up: A functioning hearing loop setup in accordance with the SIS 60118-4 standard and a device providing sound source to the hearing loop, e.g. a microphone or a TV.
2. Choose an appropriate place for T-SIGN. It is not recommended to set up T-SIGN close to electronic devices due to signal interference.
3. Connect power to the T-SIGN and keep it at or nearby the chosen mounting place. Make sure that the hearing loop is not in use. Verify that there is no signal interference that affects the T-SIGN. This is shown by that T-SIGN remains dark when there is no signal in the hearing loop. Depending on the magnetic field strength from the hearing loop at the chosen location, a corresponding sensitivity needs to be set on T-SIGN. A high sensitivity setting in combination with background signal interference might cause the T-SIGN to show false indications of the hearing loop. If this is the case consider choosing a different location with stronger field strength and/or less signal interference from the surroundings.
4. Drill two screws onto the wall according to the enclosed drilling template (page 9).
5. Fine-tune the sensitivity of T-SIGN with the enclosed screwdriver. Follow the instructions in the paragraph ”Calibration mode” below.

Calibration mode

1. Turn off T-SIGN by unplugging the DC connector or unplug the power supply. Wait a few seconds until it has shut down.
2. Turn the light intensity knob to minimum
3. Turn on T-SIGN by plugging in the DC connector or by plugging in the power supply
4. After that T-SIGN has made one or two green flashes (depending on program selection) turn the light intensity knob to maximum. This must be done within two seconds after the green flash(es).
5. T-SIGN now indicates that it is in calibration mode by doing two short green double flashes.
6. When in calibration mode, T-SIGN shows the magnetic filed strength in real time where it is mounted. The calibration mode is used to adjust the sensitivity so that T-SIGNs changes color from green to red when the magnetic field strength at the place of listening (most probably NOT at the mounting spot) is 400 mA/m for 1 kHz. If you don’t have access to a measuring device adjust the sensitivity while sending a strong signal to the hearing loop (as received at the normal listening position) so that T-SIGN turns red in the transients. Depending on the setting T-SIGN will be more or less prone to change to red color for a strong signal.
7. If the field strength is not sufficient at the position T-SIGN is installed you will notice this by that T-SIGN won’t turn red if you adjust T-SIGN to the highest sensitivity. In that case use the external sensor by plugging it into the external sensor input and position the external sensor closer to the hearing loop (normally downwards if hearing loop is installed in the floor).
8. Last step is to pull out the DC adapter, wait approximately five seconds and then reconnect the DC adapter again.

Cleaning and maintenance

Use a damp cloth to wipe it on the outside. Never use cleaning products or solvents.

Repairs

If your product malfunctions, it must be repaired by a qualified technician. Do not attempt to open the case of the device since this would invalidate the warranty. If your product requires service, please contact your hearing care professional for assistance.

Waste disposal

This product contains electrical or electronic equipment and should be disposed of carefully in the interests of your safety and the environment. Please contact your local hearing care professional concerning disposal of the product.

Technical data

Input power: 15 V, 1A via external power supply 110 – 230 V AC
External sensor input: Use external sensor for T-SIGN

Sensitivity, transition from normal to strong indication (steady green to red color light)

- Sensitivity knob in min position: + 9 dB signal (1 kHz, ref 400 mA/m)
- Sensitivity knob in max position: – 22 dB signal (1 kHz, ref 400 mA/m)
- Frequency range: 300 Hz – 2000 Hz (rel -3 dB)

Indications (referencing steady green to red color shift):

- No signal (< -15 dB) : Dark
- Weak signal (-7 – -15 dB) : Soft flashing green light
- Normal signal (0 – -6 dB): Steady green light
- Strong signal (> 0 dB): Steady red light

DIP-switch configuration

- DIP-sw 1: Automatic control of light intensity related to surrounding light (off/on)
- DIP-sw 2: Reduce sensitivity for weak signal 3 dB (off/on). This can be a good feature when high sensitivity is needed in combination with some surrounding interference.
- DIP-sw 3: Change indication of strong signal from a steady red light to flashing red light (off/on)
- DIP-sw 4: Program selection 1 & 2

Program characteristics program 1:

Program 1 is a program where T-SIGN reacts relatively fast to changes in magnetic field strength. It can be e.g. in a teaching situation where the speaker is interested in knowing that the correct microphone technique is used.

- From dark to some indication: 1 sec
- From weak to normal signal indication: 2 sec
- From normal to strong signal indication: 4 sec
- From strong to normal signal indication: 2 sec
- From normal to weak signal indication: 4 sec
- Time to dark T-SIGN when no signal detected: 3 sec

Program characteristics program 2:

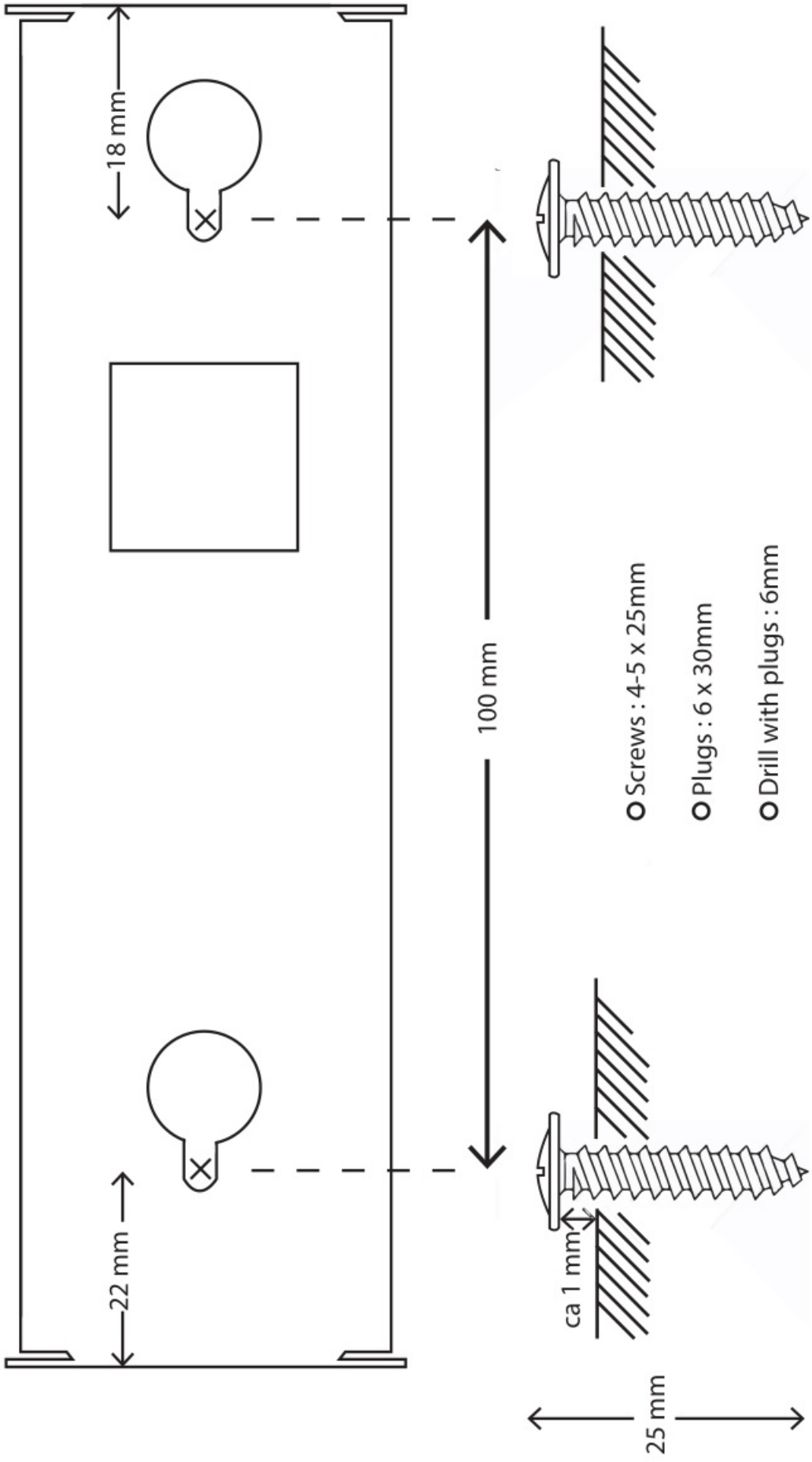
Program 2 is a program where T-SIGN reacts slower to changes in magnetic field strength. It can be e.g. in situations where you don’t have the ability to directly adjust the level of the signal going to the hearing loop. Good to show that the hearing loop is functional at a basic level.

- From dark to some indication: 5 sec
- From weak to normal signal indication: 4 sec
- From normal to strong signal indication: 15-25 sec
- From strong to normal signal indication: 2 sec
- From normal to weak signal indication: 25 sec
- Time to dark T-SIGN when no signal detected: 60 sec.

The times above are approximations and based on a 1 kHz signal with 3 dB step below or above the threshold. When using T-SIGN for speech the times will vary depending on the characteristics and intensity of the signal.

- Power consumption: 1 W
- Measurements: 15 cm (W) x 18 cm (H) x 4,5 cm (D)
- Weight: 360 g
- Color: Aluminum

Drilling template



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Documents / Resources

	Transistor T-SIGN Active Loop [pdf] User Manual T-SIGN Active Loop, T-SIGN, Active Loop, Loop

References

- transistor.se