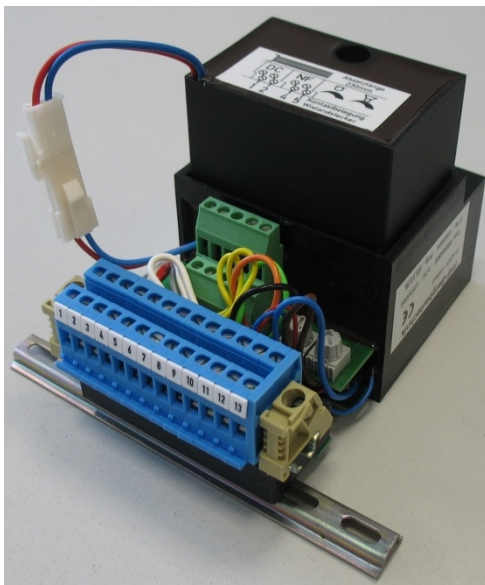


Electronics module LV30 FTS* for FTS installations

*) FTS=Voice and Signal Communication from/to the Cage

Ordering data

Designation	Type	Item no.
Electronics module LV30 with storage battery for FTS	LV30 FTS	125 300 95
Electronics module LV30 without storage battery for FTS	LV30 FTS	125 300 95 01



- **Connection via terminal strip**
- **Reliable intercommunication and signalling at high volume**
- **Emergency operation (intercommunication) in case of mains failure by means of storage batteries installed in each LV30 FTS**
- **Rechargeable NiMH battery (8.4V / 200MmAh)**
- **Connection of DC wires: protected against polarity reversal**
- **Connection of WL wires: protected against polarity reversal**

Configuration

The electronics produced in SMD technology is installed and sealed in a plastic housing and consists of two modules. In the bottom housing, the battery charging circuit, the loud-speaker amplifier and the microphone amplifier. are installed The top housing contains the plug-in rechargeable NiMH battery pack. On the one hand, the installed battery enables a high volume at a low power consumption, and on the other hand, it enables the temporary emergency operation of the electronics module after shutdown of the mains voltage or in the event of a mains voltage failure.

Functional description

The electronics module LV30 FTS is used e.g. in control desks and control cabinets for signalling or communication.

The connections of the electronics module are routed to a terminal strip which enables the further wiring.

Connection of a microphone and the related talk key to the terminals of the electronics module LV30 FTS is possible.

The microphone is activated by pressing the talk key. The downstream connected microphone amplifier boosts the signals recorded via the microphone to such an extent that afterwards they are input into the WL (LF)-wire pair at a nominal level of -6dB. A potentiometer installed right beside the connecting terminals allows varying the microphone sensitivity. In as-supplied condition, this potentiometer is set to the centre position.

Electronics module LV30 FTS

In addition to the talk key connection, the LV30 FTS electronics module is equipped with a connection for the signal key and the control room alert key (dispatcher call key).

When the signal key is pressed, a signal tone of 1980 Hz (-6dB) is output, when the control room alert key is pressed, a the control room alert tone 420 Hz (-6dB) is output onto the WL (LF)-wire pair. While the signal tone is intended for signalling purposes, the control room alert tone can be used as a call tone e.g. to call a WL200 switchboard by activating this key in a previously defined sequence.

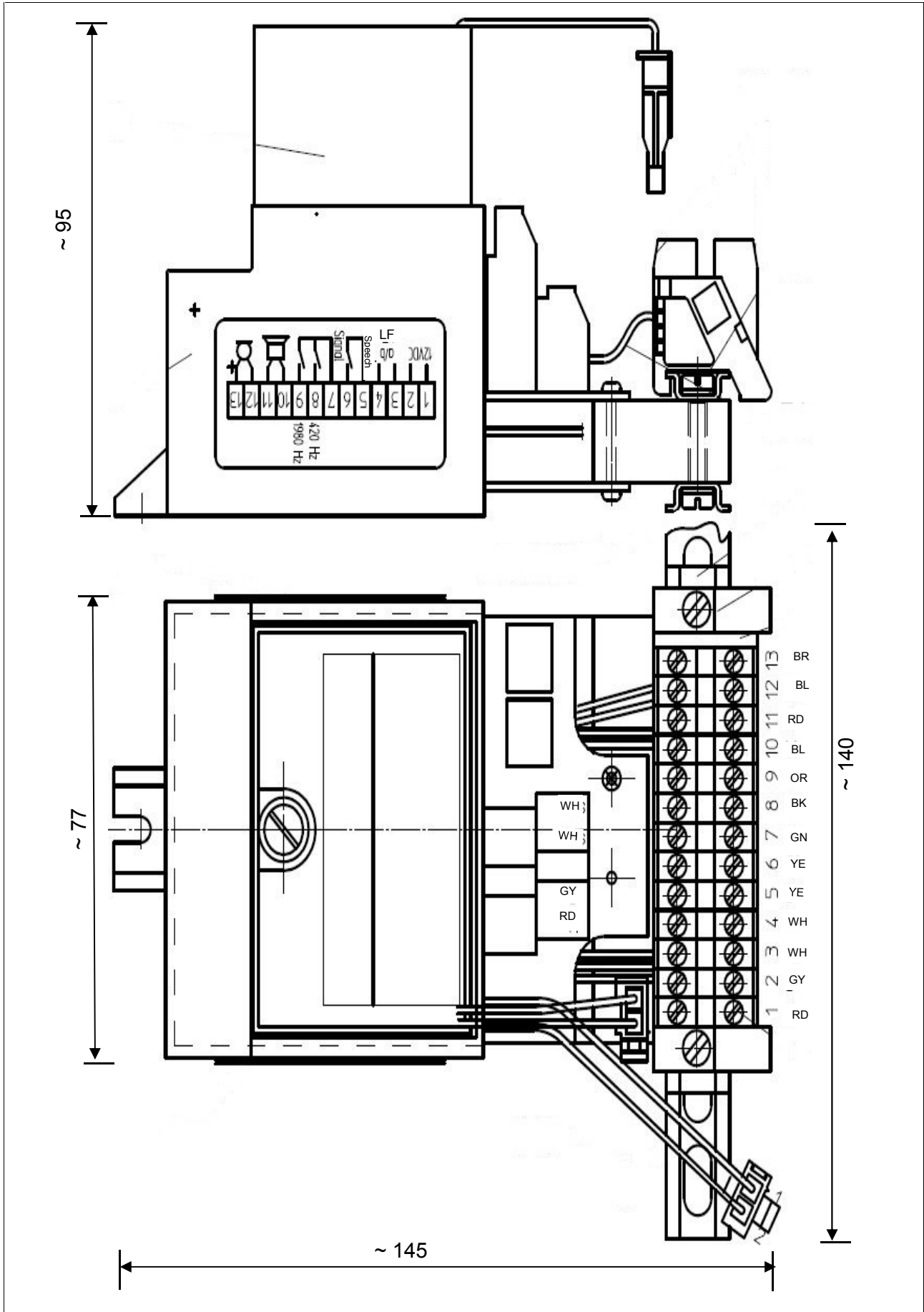
As a function check, the signal tone will also be emitted for a short time (approx. 100ms) through the device-own loudspeaker connection after the signal key has been pressed (1980 Hz). The output stage for activating the loudspeaker connected to the LV30 FTS electronics module is controlled through a speech detector. This device features a transformer-decoupled connection to the WL (LF)-wire pair of the connecting line. In the case of AC levels with a value of > 60 mV on the WL (LF)-wire pair of the connecting line, the speech detector responds and activates the output amplifier of the LV30 FTS electronics module.

With signal levels < 40 mV, the speech detector is deactivated and shuts down the output amplifier with an OFF delay (OFF delay approx. 1 s).

A potentiometer installed right beside the connecting terminals allows the volume adjustment. In as-supplied condition, this potentiometer is set to maximum volume.

The battery of the electronics module is charged through an internal switching converter with constant energy which is drawn from the supply voltage (8 to 12V) energizing the DC input terminals.

Dimensional drawing for electronics module LV30 FTS



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