

### Intended use and function:

The digital speech unit DSA2 is designed for the audio announcement of floor position and signal conditions of a lift.

### Connection of power supply:

A direct current power supply from 12 V up to 30 V has to be connected to the 2-pole pluggable screw terminal bar. The legend „+24V“ and „GND“ is visible on the printed circuit board when the screw terminal bar is removed.

### Connection of floor position signals:

At the pluggable 6-pole screw terminal bar the floor position signals are connected to clamps E1 to E5. A release for the output of the floor position can be connected to clamp „Fr“. This input than has to be activated via the dip-switch „Fr“. If further floor position signals have to be connected, these will be connected to the clamps „E6“ (=S10) to „E15“ (=S1) of the 10-pole pluggable screw terminal bar.

### Connection of special signals:

Special signals are connected via the 10-pole pluggable screw terminal bar beginning with clamp „S1“ (=E15) to „S10“ (=E6).

### Choosing the control potential:

The common reference potential for the control of the inputs is adjusted via a link plug (Jumper):

<b>A</b> = common anode (+)	control with 0 V	active low
<b>K</b> = common cathode (-)	control with positive voltage	active high

### Connection of loudspeaker and adjustment of volume:

If no loudspeakers are integrated respectively the two 2-pole connectors are not allocated, an external loudspeaker with 8 ohm impedance (e.g. LSP-65) has to be connected to the clamps „L+“ and „L-“. Via de potentiometer „Vol“ the volume can be adjusted infinitely variable.

**Attention:** Do not connect the loudspeaker to the clamps „GND“ or „M“!

### LED-display:

The operating state is displayed via a red and green LED:

green LED	meaning	red LED	meaning
off	no voltage	off	standby
continuous light	initialisation	continuous light	not all announcements can be controlled <sup>1)</sup>
flashing slowly	Standby	flashing slowly	no memory card
flashing quickly	replay active	flashing quickly	faulty memory card

<sup>1)</sup> only possible at 1 out of n, if the sum of floor and special signals exceeds the amount of the 15 inputs. The replay is possible, however the upper floors which overlap with the special signals can not be controlled.

### Memory card:

The announcements and the parameters of the DSA2 are stored on a memory card type SD (Secure Digital Memory Card) or MMC (Multimedia Card) in the file „index.rsc“. The DSA2 is normally delivered with a memory card programmed according to the order. The card can be removed by pressing it in the direction of the printed circuit board center. It then jumps out slightly and can then be withdrawn. For inserting the card, it is pushed in until it snaps into place in the carrier.

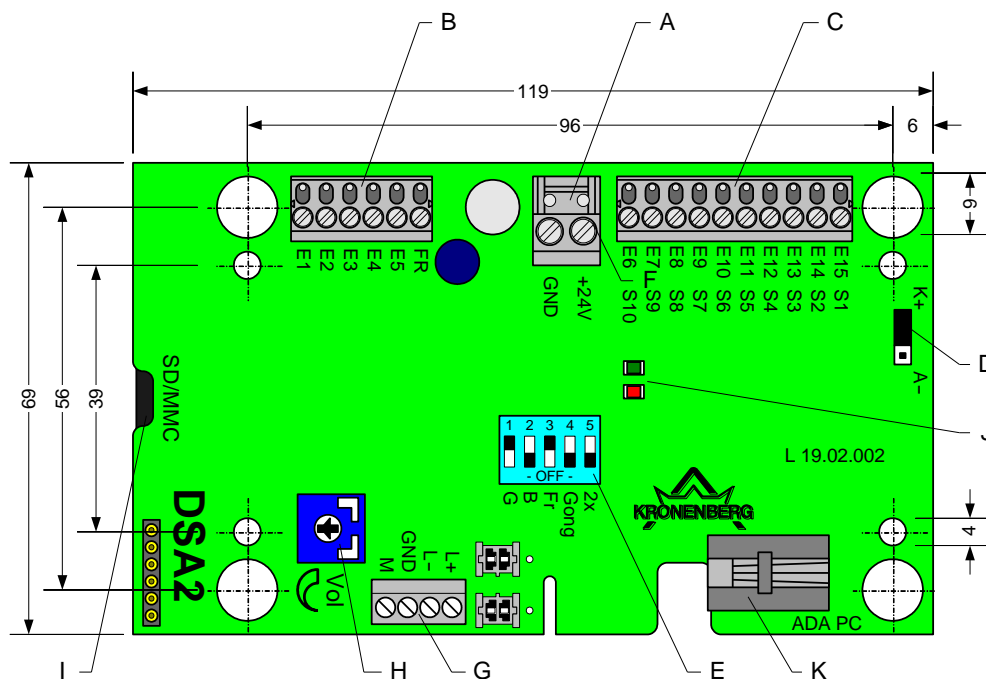
Not all memory cards are compatible with the DSA2!

When making any changes to the file „index.rsc“ it has to be confirmed that the file is stored in first place in the storage of the memory card. Before copying this file the memory card has to be formatted or all the old data will be deleted.

### Attention!

The speech unit is equipped with sensitive electronic devices, which may not be touched with electrically conducting or energised parts. At the connection either the voltage has to be switched off or the pluggable connecting terminals have to be removed. The full terminal connections are only visible with the removed screw terminal bar. When attaching the connecting terminal bar it must be noted that it may not be attached displaced or twisted. At the inputs no negative voltages or alternating voltages may be connected (by the protective circuit negative voltages are short-circuited).

### Dimension printed circuit board DSA2:



- |   |   |
|---|---|
| <b>A</b> 2-pole screw terminal bar for power supply                                     | <b>F</b> 2-pole Ultrax-connector for integrated loudspeaker |
| <b>B</b> 6-pole screw terminal bar for floor position and release                       | <b>G</b> 4-pole screw terminal for loudspeaker and mute     |
| <b>C</b> 10-pole screw terminal bar for special signals and if necessary floor position | <b>H</b> potentiometer for volume control / adjustment      |
| <b>D</b> link plug for choosing the reference potential of the control signals          | <b>I</b> memory card  |
| <b>E</b> DIP-switch for floor encoding, release, gong and repetition                    | <b>J</b> LED-control display                                |
|   | <b>K</b> female connector for serial interface              |

**DSA2-M**