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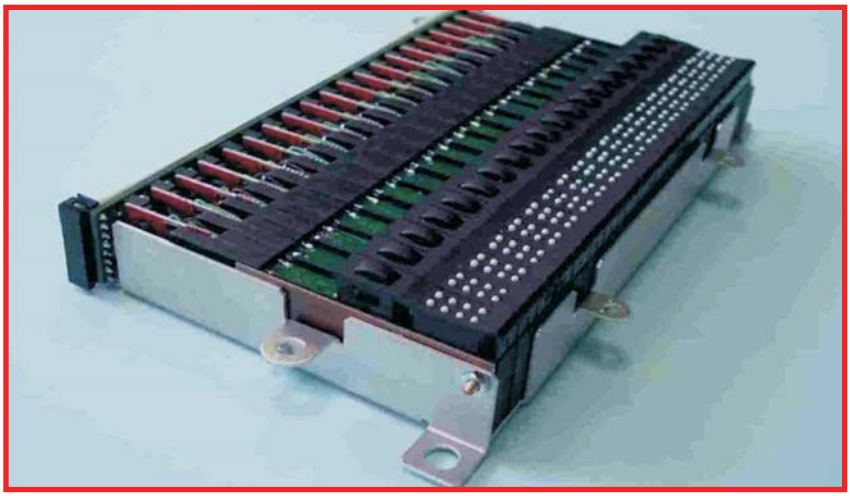
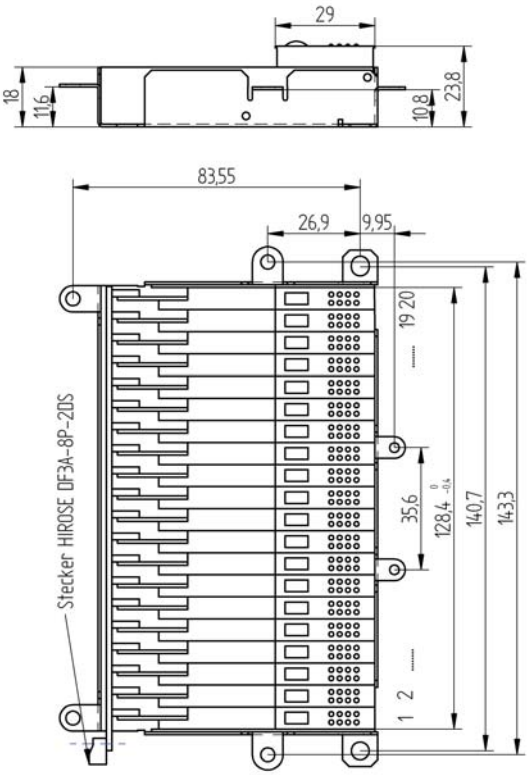
Braille-line 20 Cell standard



Dimensions



Description

Braille-line with 20 x B11 Braille-cells with 8 Dots, driven by Piezo-actuators (bending type). Integrated drive electronic connected by an passive back-plane. Flat or concave tactile surface with one interaction button.

Data

Dimensions (w x h x d):	130 x 81,5 x18mm (plus cap)
Dot spacing:	2.45 mm
Dot stroke:	ca. 0.7 mm
Cell spacing:	6.42 mm
Tactile force:	min. 17 cN

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Braille-line 20 Cell standard

Data

Connector:	**Hirose PF3A-8P-2DSA**
Drive electronic:	**Low-power ASIC-electronic on PCB of each Braille-cell**
Power requirements:	
5 V +-10%:	**max. 7mA 50µA typ. for 20 Braille-cells (with static driven signals, no key pressed)**
200 V +-10%:	**current limitable to 4mA many simultanious dot changes draws higher puls current Absolute max. rating 240 V Static driven: 10 µA typ. max. 400µA for 20 Braille-cells**
Dot rising time:	**50ms**
Max. Transition time clock & strobe:	**100 ns**
Max. clock speed:	**500 kHz**
Data sequence:	**20 x 1 2 3 4 5 6 7 8 Braille-dot sequence**
Connector pinning: (top to bottom)	**+ 5 V Data out Data in Strobe Clock GND (unused) 200 V**

Average piezo actuations: > 10^9

Environmental Specifications:

Operational:	**Temperature 10 °C to 40 °C Humidity 10 % - 90 % RH non condensing**
Storage:	**Temperature -15 °C to 60 °C Humidity 5 % - 95 % RH non condensing**
Accessories:	**USB-Interface with 185V DC/DC converter connecting cable housing**

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