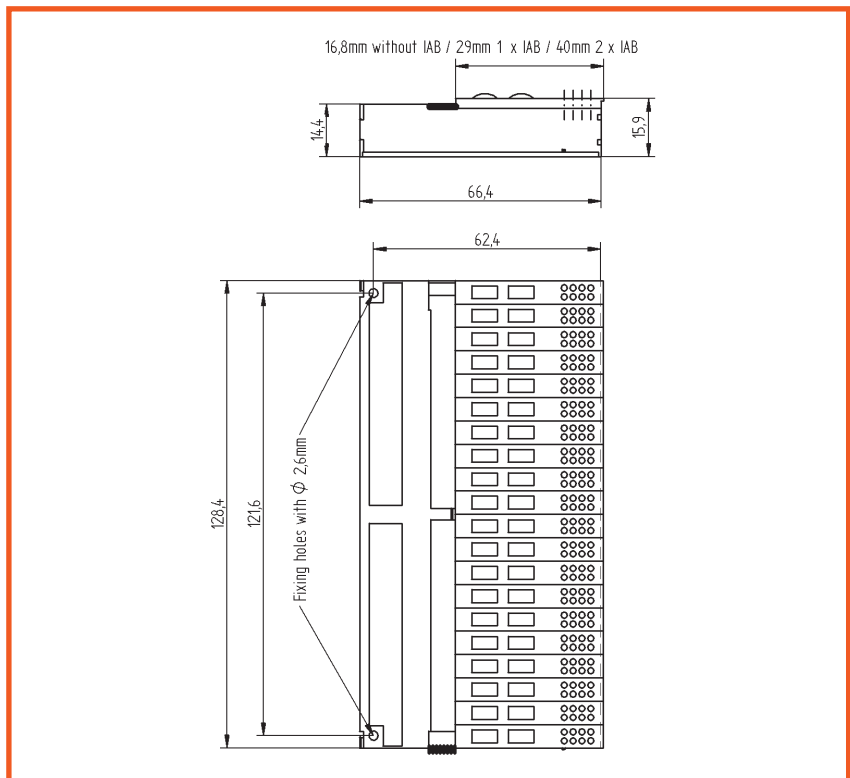


## Braille-line Flat 20



## Dimensions



## Description

Braille-line with 20 Braille-cells with 8 dots, driven by piezo-actuators (bending type). Integrated drive electronic with 200V power supply and interaction buttons. Flat or concave tactile surface with none, one or two interaction buttons. Stackable to 40, 60, or 80 Braille-cells.

## Data

Dimensions (w x h x d): 128,4x 67x16,0(with cap)  
Dot spacing: 2.45 mm  
Dot stroke: ca. 0.7 mm  
Cell spacing: 6.42 mm  
Tactile force: min. 17 cN

## Braille-line Flat 20

### Data

<b>Connector:</b>	<b>W +P, RM1.27, 1 line; 8 pol</b>
<b>Drive electronic:</b>	<b>Low-power electronic on PCB with integrated adjustable high voltage supply (170-210V) and interaction buttons</b>
<b>Power requirements:</b>	<b>5 V +-5%; max. 160mA 20mA typ. for 20 Braille-cells (with static drive signals, no key pressed)</b>
<b>Dot rising time:</b>	<b>50ms</b>
<b>Max. Transition time clock &amp; strobe:</b>	<b>100 ns</b>
<b>Max. clock speed:</b>	<b>500 kHz</b>
<b>Data sequence:</b>	<b>20x 1 4 , 8x power, 20x 2 5, 8x free, 20x 3 6, 8x free, 20x 7 8 Braille-dot sequence</b>
<b>Connector pinning: (front to back)</b>	<b>+ 5 V Data out Data in Strobe Clock GND Shut Down (200V) (unused)</b>
<b>Average piezo actuations: &gt; 10<sup>8</sup></b>	
<b>Environmental Specifications:</b>	
<b>Operational:</b>	<b>Temperature 10 °C to 40 °C Humidity 10 % - 70 % RH non condensing</b>
<b>Storage:</b>	<b>Temperature -15 °C to 60 °C Humidity 5 % - 90 % RH non condensing</b>
<b>Accessories:</b>	<b>connecting cable</b>