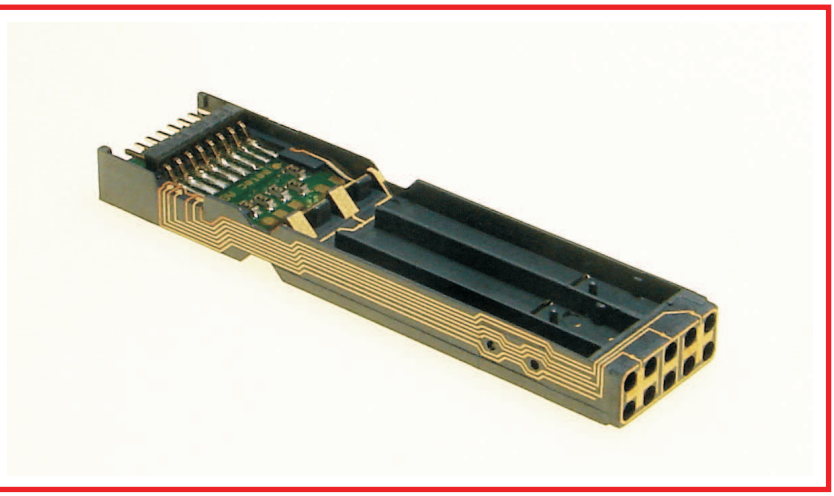
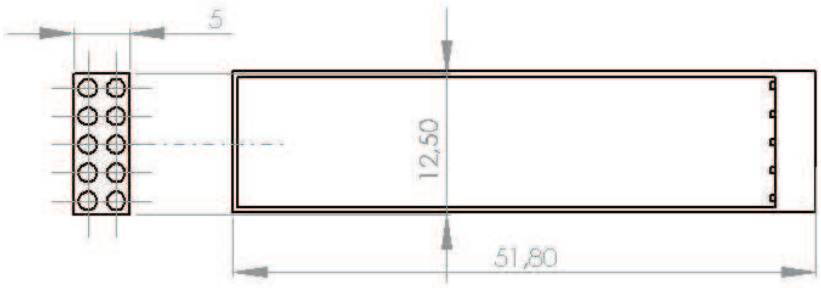
metec

INGENIEUR-AKTIENGESELLSCHAFT · MEDIZINTECHNIK · FEINWERKTECHNIK

Modul D2



Dimensions



Description

Braille-cell for tactile areas with 10 (5 x 2)dots, driven by piezo-actuators (bending type). Two touch-sensors for the finger position. Integrated drive electronic. Dot spacing 2.5mm each direction. Dots and caps removable. Caps for 16 x 15 dots.

Data

Dimensions (w x d x h):	12,5 x 5 x 51,8 mm
Dot spacing:	2.5 mm
Dot stroke:	ca. 0.7 mm
Cell spacing:	5 mm
Tactile force:	> 30 cN
Connector:	SIL 1,27 mm, 8 pins
Drive electronic:	Low-power ASIC-electronic on PCB, with integrated Touch-sensors data processing.

F01 D2-1

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Modul D2

Data

Power requirements:	
5 V +-10%:	80µA typ. per cell with scanning of sensors each 25ms
200 V +-10%:	Absolute max. rating 240 V 1 µA typ. ,max. 50 µA per cell @200V static (without movement of the dots)
Dot rising time:	100 ms
max. clock speed:	1 Mhz
Sensor:	SPI Interface with 24bit command sequence
Actor:	Serial interface with 16bit using the SPI CLK and MoSi with special Latch enable
Connector pinning: (top to bottom)	200V /LE Actor GND +5V CLK MoSi MiSo /CS Sensor

Average piezo actuations: > 10^7

Environmental Specifications:

Operational:	Temperature 10 °C to 40 °C Humidity 10 % - 70 % RH non condensing
Storage:	Temperature -15 °C to 60 °C Humidity 5 % - 90 % RH non condensing

Specifications are subject to change without notice.

F01 D2-2

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