

Technical Information

MCI 30



The **Preh MCI 30** is a space saving, high quality, keyboard providing 30 key positions, which can be configured and programmed to meet customized needs.

The MTF technology protects this keyboard against dust and splash water. The universal, modular design of these compact keyboards permits easy adaptation to meet specific system requirements and

independent selection of a magnetic card reader (MSR).

The data from the MSR transmitted over the keyboard interface.

All configurable key positions can be populated with your choice of single, double, and quadruple keys or with dead tiles, which disable a position.

Key values are assigned by programming the keyboard via the **Preh WinProgrammer**

software, and can be rewritten or erased as often as desired.

The **MCI 30** offer both PS/2 and USB interface and is compatible with all common operating systems, such as DOS, WINDOWS, UNIX, OS/2, LINUX, etc. No drivers are required.



Optional Features

Magnetic Stripe Reader (MSR)

The MSR works with all magnetic cards. The MSR data is transmitted over the keyboard interface. All information on the card is read.

- **Bi-directional MSR:** magnetic cards can be swiped in either direction.
- **MSR Tracks:** 3 tracks, including the ability to read drivers license format AAMVA and CADL.
- **Expected Magnetic-head life:** 500,000 passes.
- **Error rate:** less than 0.5%.
- **Power consumption:** less than 9mA.
- **Status LED:** provides confirmation of a correct read.
- **Headers and terminators:** are programmable.
- **Complaint with:** ISO 7810, ISO 7811, ISO 7812, and ISO 7813.

Drivers and Tools:

- OPOS driver for MSR, keylock and Keyboard.
- JavaPOS driver (Windows and Linux) for MSR, keylock and Keyboard.
- Programming tools for Windows and DOS.

Programming via the Preh WinProgrammer.

- User-friendly interface.
- Key assignments can be made available, edited and copied to a file.
- 128 programmable levels.

Technical Data

Mechanics

Housing

- **Dimensions:** See page 6
- **Color:** gray-white (similar to RAL 9002) and black.

Keys

Key spacing:

19mm

Actuation travel:

3,5 mm

Actuation force:

0,6 N

Impact stability:

10 N, 1 min.

Lifetime:

3 million cycles per key

Bounce Time

5ms max.

Switching load

30V max/ 20mAh max.

Contact Resistance

800 ohm max.

Colors:

- Grey-white.
- Black.
- Additional colors on request.

Environment protection

IP 54

Electronics

Supply voltage

+ 5 V ± 5%

Current consumption

Max 50 mA

Interface

USB (PS/2 adaptor included).

Hard-wired PS/2 interface available upon request.

Minimum order quantities apply.

Auto repeat All keys, repeat frequency and delay time are programmable.

4 Status LEDs

- Caps Lock
- Scroll Lock

- Num Lock
- MSR status

Buzzer

Generates acoustic signals (key click).

PS/2 socket

Assignment

(6 Pole Mini-Din connector)

1 Data

2 NC

3 GND

4 +5V

5 Clock

6 NC

Shielding



ESD/EMC/EMV

CE Approval

Emissions

EN55022

FCC Subpart 15, Class A

Interface Immunity

- Electrostatic discharge immunity according to EN 50082-1, resistance limit 8kv (air discharge).
- Radiated, radio-frequency electromagnetic field immunity, severity of test 3 V/m.

Temperature Ratings

Operational Temperature

0° C to 50° C

Air Pressure

700 hPa to 1060 hPa

Relative Humidity

5% to 93%

Climatic Class

700 hPa to 1060 hPa

Storage and Transportation

-40°C to 60°C

Climatic class

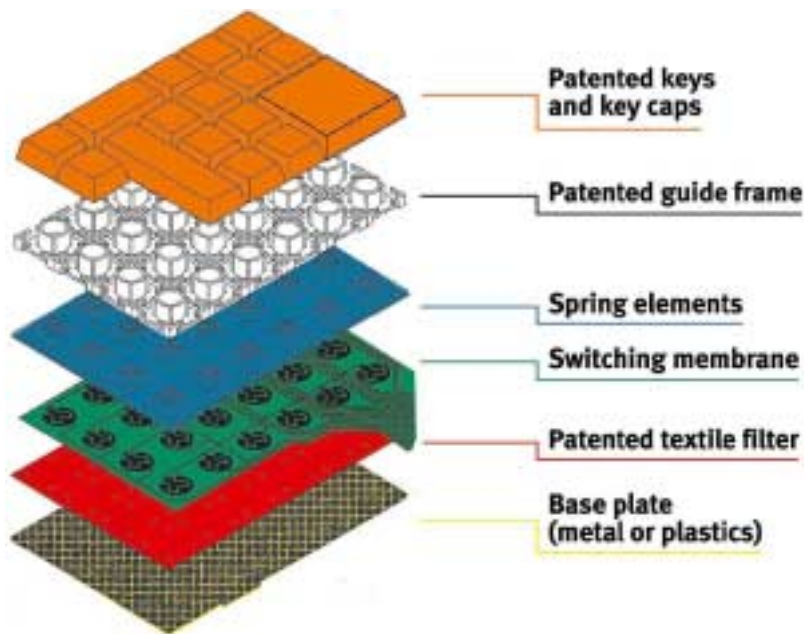
DIN-IEC 68, part 1, appendix A

Climatic Class
700 hPa to 1060 hPa

Storage and Transportation
-40°C to 60°C

Climatic class
DIN-IEC 68, part 1, appendix A

Patented long life Keypad Technology



Dimensional Drawings

Dimensions in mm (inches)



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