

Membrane keypads

Membrane keypads for all kind of applications • standard keypads or 100% customised keypads



DISTINCTIVE FEATURES

- Digital or silk screen printed overlay
- Entirely customizable graphic design
- Reduced space requirement (thickness of some mm)
- Most affordable control system



ENVIRONMENTAL SPECIFICATIONS

- Operating temperature :
 - Standard non illuminated keypads: -25 °C to +65 °C (-13 °F to +149 °F)
 - Standard illuminated keypads: -30 °C to +55 °C (-22 °F to +131 °F)
- Storage temperature :
 - Standard non illuminated keypads: -30 °C to +85 °C (-22 °F to +185 °F)
 - Standard illuminated keypads: -40 °C to +60 °C (-40 °F to +140 °F)
- Sealing IP65 according to IEC 40529
- Endurance : 1 000 000 operations



ELECTRICAL SPECIFICATIONS

- Contact voltage rating : 24V DC (min 1 V, max 50 V)
- Contact current rating : 30 mA
- Contact resistance : 1 ohm/cm (with 1 mm track)
- Insulation resistance at 100 V : >100 Mohms
- Contact bounce : 5 ms @ 5 V
- Dielectric strenght : 250 V rms



GENERAL SPECIFICATIONS

- Contact force :
 - Standard non illuminated keypads: 2,5 N
 - Standard illuminated keypads: 4 N
- Stroke :
 - Standard non illuminated keypads: 0,48 mm
 - Standard illuminated keypads: 0,85 mm

The company reserves the right to change specifications without notice.



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MATERIALS

- Front overlay : Polyester 150 µm
- Rear adhesive : DS397
- Metal domes 10x10 mm

APEM products may be recycled at end-of-life for the re-claiming of valuable metal components.



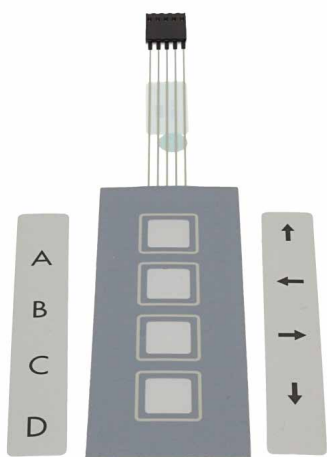
EXTRA FEATURES AVAILABLE ON REQUEST

- Different material (type/thickness) and design for front overlay
- Different rear adhesive
- Specific embossing (Various form and dimensions possible, full embossing or finger guide)
- ESD and EMC robustness (Shielding)
- Pitch tail (from 0,5 to 2,54 mm)
- With or without snap domes and with or without tactile effect.
- Specific connector and tail shape
- Mechanical support (plastic , metal, ...)
- Sealed up to IP67 with specific design
- Visual feedback option with various colors : LED indicators or Backlighting (with individual control possibilities)
- Opened or protected windows
- Specific control and labelling
- Serial number management
- Insert label

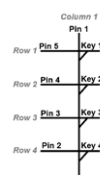
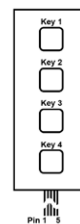
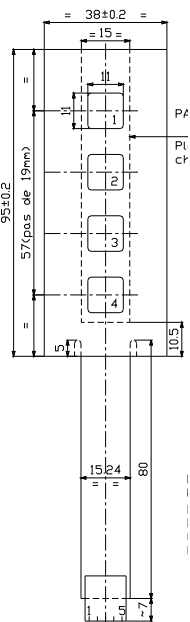
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4 KEYS , WITH SNAP DOMES - AND MARKING LABELS PROVIDED



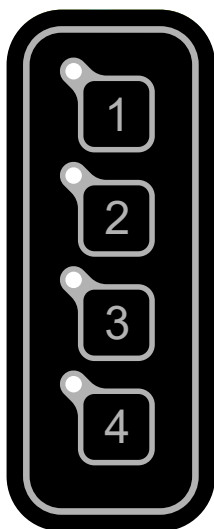
CCM4TR



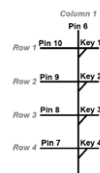
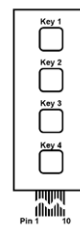
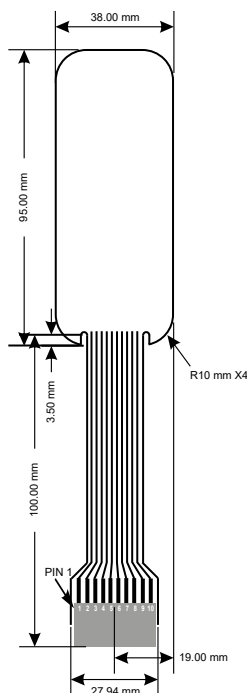
Schematics

Crimplex female connector 5 pins pitch 2,54mm : ref E20OF05.

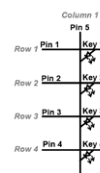
4 KEYS, WITH SNAP DOMES AND 4 LED INDICATORS



AC3559ILL



Switch schematics



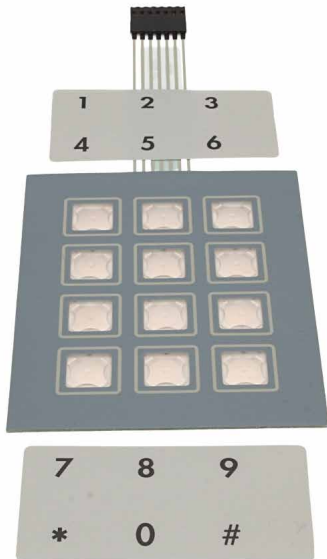
Red LED schematics

Female Connector 10 pins pitch 2,54 mm

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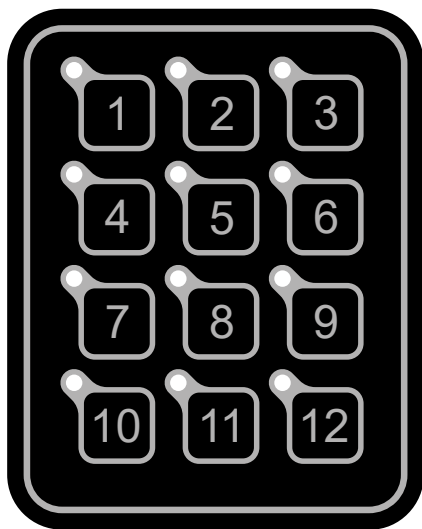
12 KEYS , WITH SNAP DOMES AND MARKING LABELS PROVIDED



CCM12TR

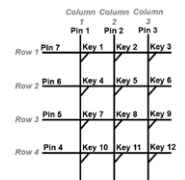
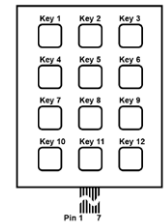
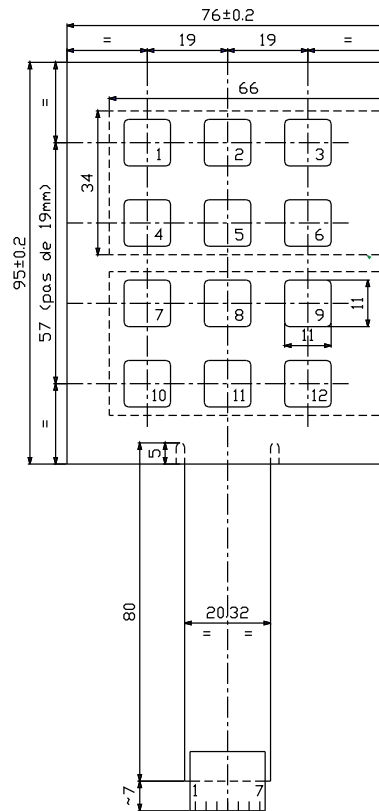
Crimpflex female connector 7 pins pitch 2,54mm : ref E20OF07.

12 KEYS, WITH SNAP DOMES AND 12 LED INDICATORS

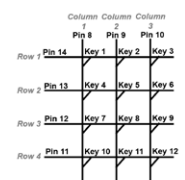
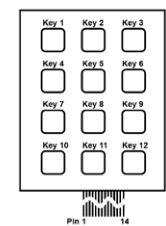
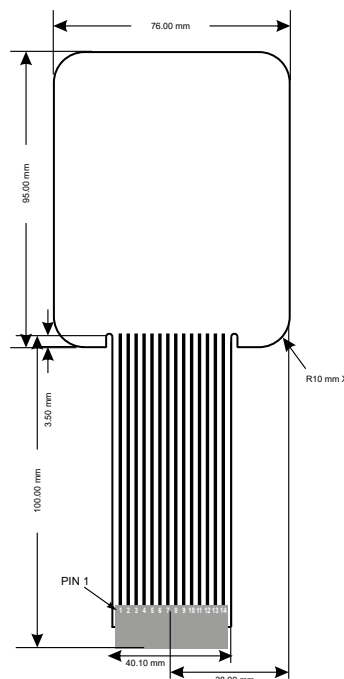


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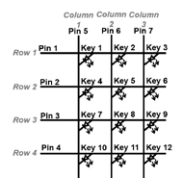
Female Connector 14 pins pitch 2,54 mm



Schematics



Switch schematics

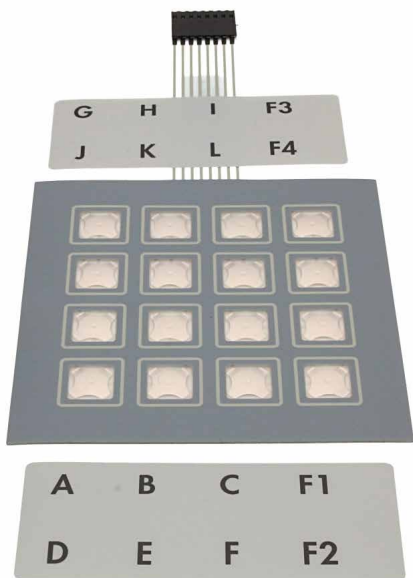


Red LED schematics

Membrane keypads

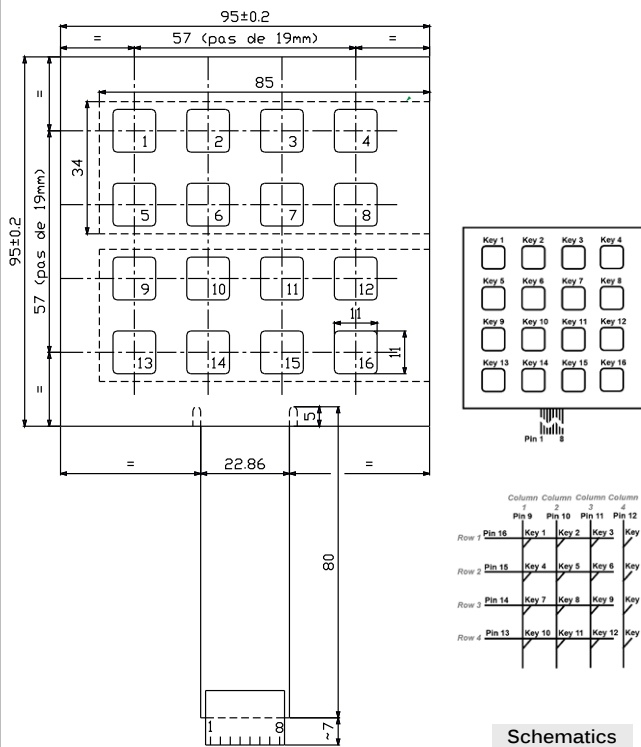
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16 KEYS , WITH SNAP DOMES AND MARKING LABELS PROVIDED



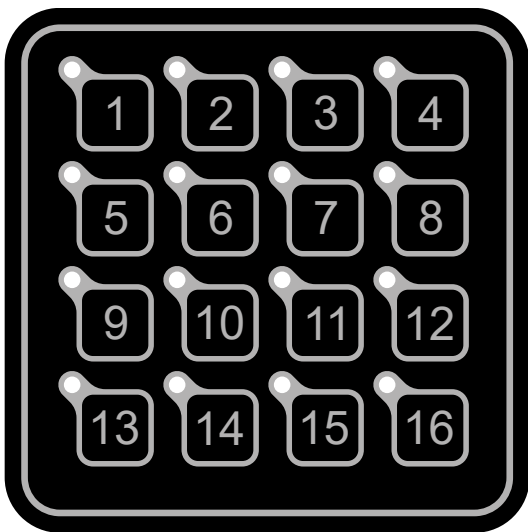
CCM16TR

Crimpflex female connector 8 pins pitch 2,54mm : ref E20OF08.



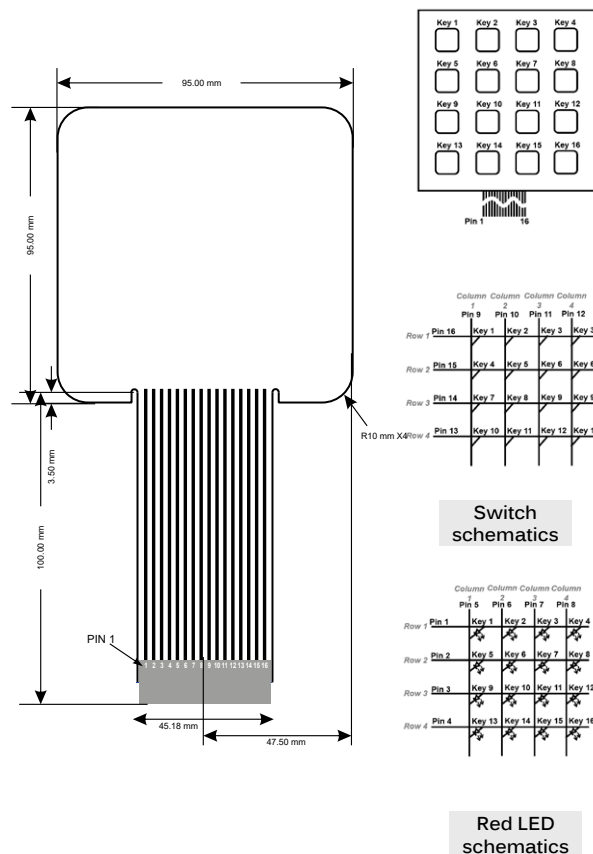
Schematics

16 KEYS, WITH SNAP DOMES AND 12 LED INDICATORS



AC3561ILL

Female Connector 16 pins pitch 2,54 mm



Switch schematics

Red LED schematics