KEYPADS

For other options or further information please contact your local sales office.

Product Profile

The M.series is an adapatable, vandal-resistant keypad for fitting behind a panel. The modular construction and truly innovative technology allows for total design flexibility, generally without the need for additional engineering or tooling costs. Suitable for access and security control, banking and payment terminals, vending machines, information terminals and kiosks, and machinery and process control.

Technical data see page 144

- Create a unique layout! Choose key illumination, colour, material, tactile feedback and length of travel
- Shock and impact up to IK09X
- Sealed up to IP67
- Integral anti-fraud protection circuit
- Readily adaptable to biometric door-entry systems
- 4, 12 and 16 key versions

Non-Illuminated keypad



Non illuminated keypad, 4 keys, round concave, pin header connection, 1 2 3 4 markings

	Part No.	Output type	Contact Type
	M04PARSANLPA	Common point	Carbon pill
	M04PARSANSPA	Common point	Domes



Non illuminated keypad, 12 keys, round concave, pin header connection, telephone markings

	Part No.	Output type	Contact Type
	M12PARSANLMT	Matrix	Carbon pill
	M12PARSANSMT	Matrix	Domes

Non-Illuminated keypad



Non illuminated keypad, 16 keys, round concave, pin header connection, hexadecimal markings

	Part No.	Output type	Contact Type
	M16PARSANLMH	Matrix	Carbon pill
	M16PARSANSMH	Matrix	Domes



Non illuminated keypad, 16 keys, round concave, pin header connection, banking version with domes, security and coloured keys

	Part No.	Output type	Contact Type
	M16PARSBNSMB	Matrix	Domes

For other options or further information please contact your local sales office.

KEYPADS

Illuminated keypad



Illuminated keypad, 4 keys, round concave, pin header connection, 1 2 3 4 markings

Colour	Part No.	Output type	Contact Type
Yellow	M04iARSAYLPA	Common point	Carbon pill
Yellow	M04iARSAYSPA	Common point	Domes



Illuminted keypad, 12 keys, round concave, pin header connection, telephone markings

Colour	Part No.	Output type	Contact Type
Yellow	M12iARSAYLMT	Matrix	Carbon pill
Yellow	M12iARSAYSMT	Matrix	Domes
Blue	M12iARSABLMT	Matrix	Carbon pill
Blue	M12iARSABSMT	Matrix	Domes



Illuminated keypad, 16 keys, round concave, pin header connection, hexadecimal markings

Colour	Part No.	Output type	Contact Type
Yellow	M16iARSAYLMH	Matrix	Carbon pill
Yellow	M16iARSAYSMH	Matrix	Domes
Blue	M16iARSABLMH	Matrix	Carbon pill
Blue	M16iARSABSMH	Matrix	Domes

Illuminated keypad



Illuminted keypad, 16 keys, round concave, pin header connection, banking version with domes, security and coloured keys type

Part No.	Output type	Contact Type
M16iARSBYSMB	Matrix	Domes

A Accessories



Mounting bracket (two per unit, for all versions of M.series)

Part No.
FIX.M001

Keypad

Material

Plastic parts
Plastic parts, as per UL 94 V0

Sealing gasket and membrane
Silicone, as per UL 94 HB

Keys
Aluminium anodised

Contacts
Dome version: Nickel/Gold
Membrane version: Carbone/Gold

PCB
PCB: Epoxy FR4, as per UL 94 V0, with gold coating

Mechanical characteristics

Terminals
Male pin connector: HE14 (number of pins according drawing)

Tightening torque
50 Ncm ±5 Ncm (screws for thermoplastic)

Actuating force
Dome version: 4.5 N ±30%
Membran version: 1.9 N ±30%

Actuating travel
Dome version: 0.6 mm ... 1 mm
Membrane version: 0.8 mm ... 1.3 mm

Rebound time
Dome version: <1 ms
Membrane version: <10 ms

Life time (cycles per key)
Dome version: 1 million actuations
Membrane version: 4 million actuations

Electrical characteristics

Operating voltage/-current
Operating voltage: 5 VDC
Current rating: 240 mA max.

Illumination
Current consumption for single LED:
20 mA at 2.1 V (yellow and green)
20 mA at 1.9 V (red)
15 mA at 3.7 V (white)
10 mA at 3.4 V (blue)

Interface
4 key version: Common point
Matrix as standard, others on request (common point, USB)

Contact resistance
Dome version: <1 Ω
Membrane version: <200 Ω

Electrostatic breakdown value
15 kV with a metallic front plate

Environmental conditions

Storage temperature
–40 °C ... +85 °C (–30 °C for illuminated version)

Operating temperature
–25 °C ... +85 °C

Protection degree
IP67 (front face)

Climate resistance
as per EN IEC 60512-6
Damp heat: 21 days, +40 °C
Dry heat: 10 days, +85 °C
Saline mist: 96 hours
UV resistance: 56 days

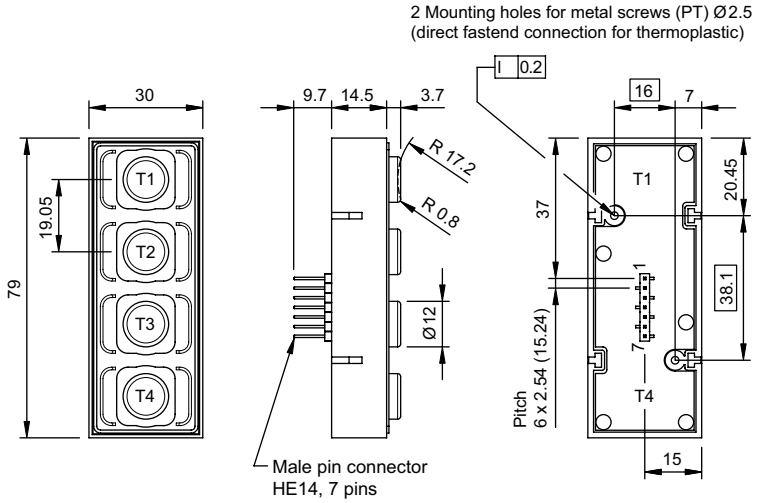
Impact resistance
IK 09 for standard version with a 3 mm thick stainless steel front plate

Approvals

Declaration of conformity
CE

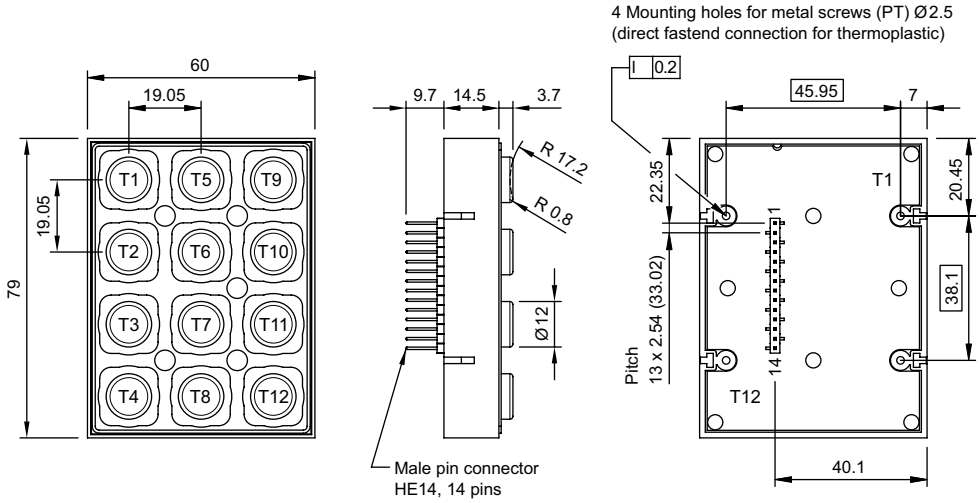
Keypad

4 keys



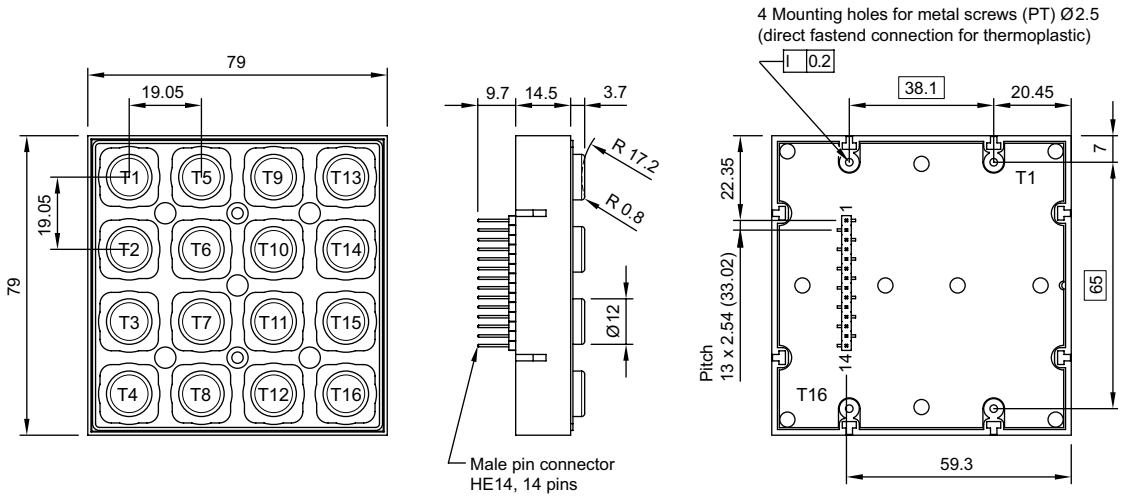
Keypad

12 keys



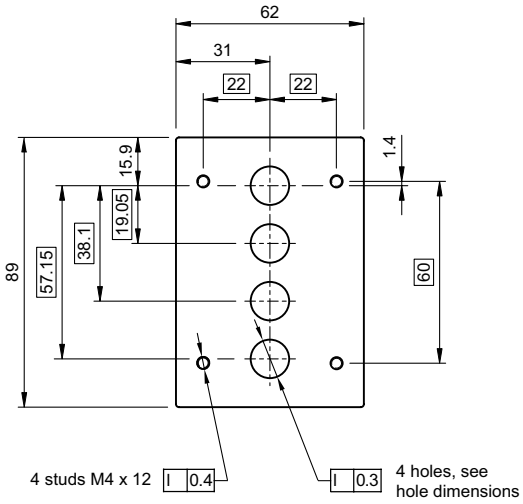
Keypad

16 keys

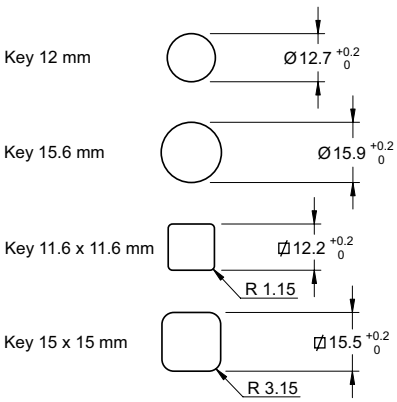


Cut-outs

4 keys

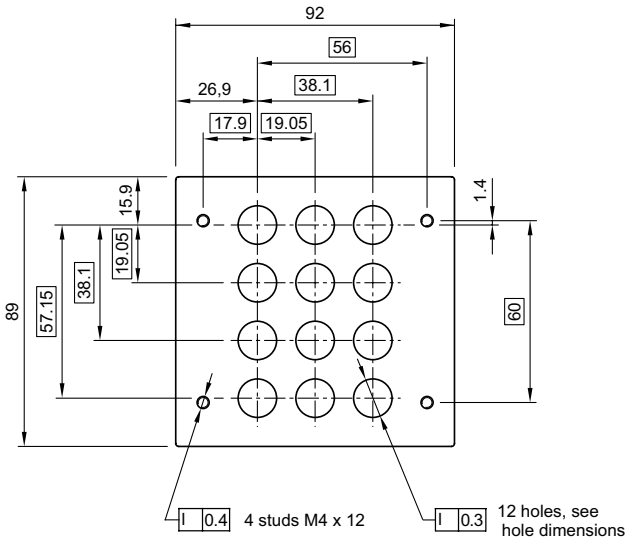


Hole dimensions

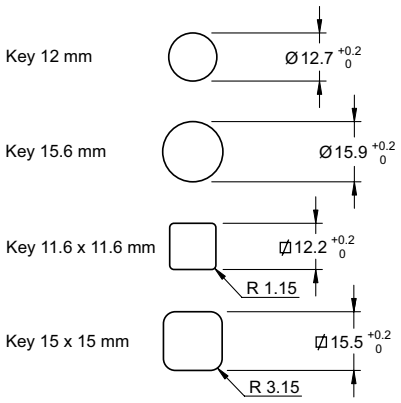


Cut-outs

12 keys



Hole dimensions



Cut-outs

16 keys

