# 720 GFX Series Sealed and Rugged Keypads

These tough, water resistant keypads feature moving, tactile keys with a responsive 'over-centre' action. Keytop graphics can be easily customized by the use of legend tiles under 'snap-on' transparent keycaps. Once snapped into place the tamper resistant keycaps encapsulate and protect the keytop graphics.



### Connection Details for 4 Key Keypad

CONTACT CONNECTIONS



5 4 3 2 1

(As viewed from rear of keypad)



KEY LOCATION

(As viewed from front of keypad)

| CONTACT MATRIX | |
|---|---|
| CONNEC. PIN | ROW/ COLUMN |
| 1 | common |
| 2 | D |
| 3 | C |
| 4 | B |
| 5 | A |

### Connection Details for 12 Key Keypad

CONTACT CONNECTIONS



8 7 6 5 4 3 2 1

(As viewed from rear of keypad)



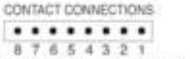
KEY LOCATION

(As viewed from front of keypad)

| CONTACT MATRIX | |
|---|---|
| CONNEC. PIN | ROW/ COLUMN |
| 1 | A |
| 2 | B |
| 3 | 1 |
| 4 | 2 |
| 5 | 3 |
| 6 | - |
| 7 | D |
| 8 | C |

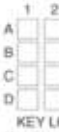
### Connection Details for 16 Key Keypad

CONTACT CONNECTIONS



8 7 6 5 4 3 2 1

(As viewed from rear of keypad)



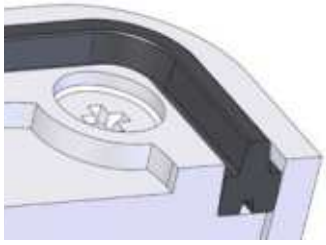
KEY LOCATION

(As viewed from front of keypad)

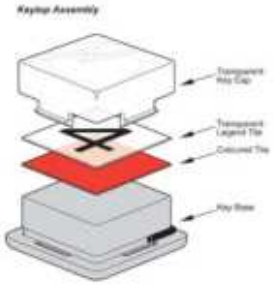
| CONTACT MATRIX | |
|---|---|
| CONNEC. PIN | ROW/ COLUMN |
| 1 | A |
| 2 | B |
| 3 | 1 |
| 4 | 2 |
| 5 | 3 |
| 6 | 4 |
| 7 | D |
| 8 | C |

The keypad can be installed on the surface or under the panel.

Fit the supplied silicone seal into the seal groove on the keypad Use the groove on top for underpanel, and on back for surface fix. The wide part of the seal goes into the groove – see picture below of the seal fitted to the back of the keypad.



To customise the layout place a colour tile and a legend tile onto the key base, and clip the keycap over the top.



White Colour Tiles and Set A Legends are included; Set A Legends comprises :-

**1 2 3 4 5 6 7 8 9 0 + = x ÷ * # . ← ↑ → ↓ AC I/O ENT CE/E**

Additional Legends ( Tile sets B,C,D,E,F,) & Colours (White, Grey, Red, Green, Blue, Yellow) are available

## Electrical

| | |
|---|---|
| Contact Bounce | **5 ms (max)** |
| Contact Resistance | **100 ohms (max)** |
| Insulation Resistance | **50 Mohms (min)** |
| Breakdown Voltage | **500 V AC (max 60 secs.)** |
| Switch Rating | **24V DC 50mA (max)** |
| Connection | **X-Y Matrix** |

## Mechanical

| | |
|---|---|
| Operational Life | **2 million cycles (min) per key** |
| Keytop Travel | **1.4mm nominal** |
| Actuation Force | **150 grams nominal** |
| Connector | **0.1"pitch, gold plated square pin** |
| Mating Connector | **Molex 2695 Series or equivalent** |

## Performance

| | |
|---|---|
| Operational Temp | **-20°C to 60°C** |
| Impact Rating | **5 J** |
| Vibration/Shock | **ETSI 300 019 5M3** |
| Water / Dust sealed | **IP65 (when fixed to suitable panel )** |

## Part Numbers

| | |
|---|---|
| 7207-041020 | **720GFX SERIES 4 KEY** |
| 7207-121020 | **720GFXSERIES 12 KEY** |
| 7207-161020 | **720GFX SERIES 16 KEY** |

## Accessories

| | |
|---|---|
| 4200-00 | **RS232 Encoder Interface Module** |
| 4500-00 | **450 USB Encoder Interface Module** |
| 4500-10 | **450i USB Encoder Interface Module with Buzzer and Illumination Control** |

Colour & Legend Tiles & Replacement Seals go to **www.storm-interface.com**

## Dimensions

| | |
|---|---|
| Overall sizes | **See following page.** |
| Panel Cutout DXF | **Download .dxf and .stp files from** |
| Surface Model STEP | **www.storm-interface.com** |






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www.storm-interface.com

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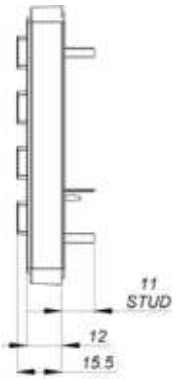
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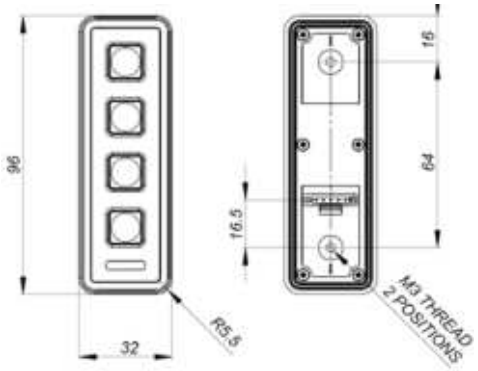
Install the keypad onto the surface of a panel as follows :-

- Fit the seal to the rear of the keypad
- Place the keypad onto the panel and fit the self locking nuts to the studs on the back
- Recommended tightening torque 50Ncm

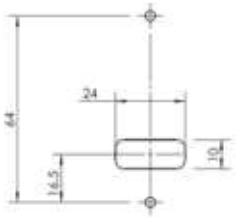
Side View : 4, 12, 16



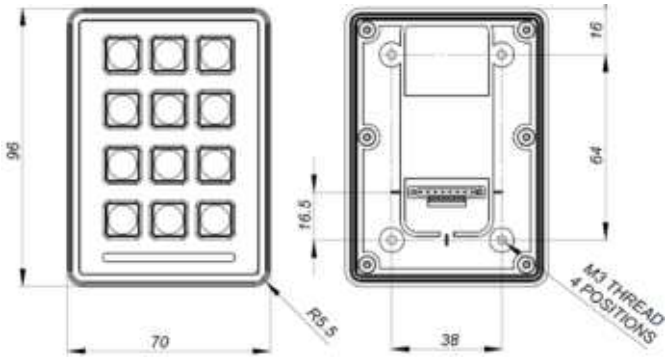

Front and Back View : 4 way



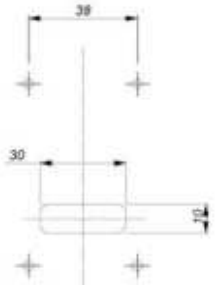

Panel Cutout : 4 way



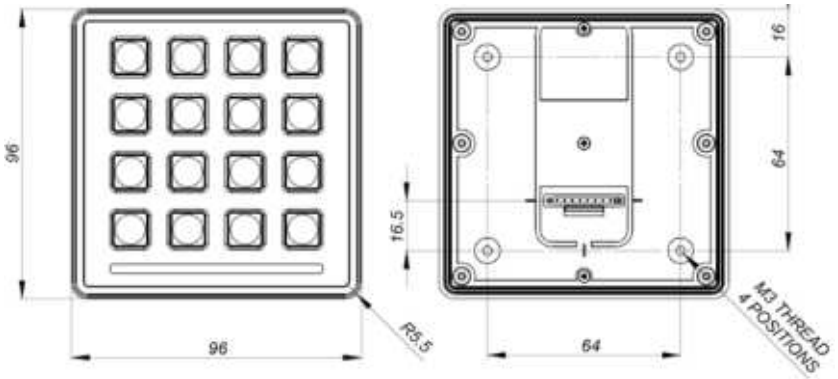

Front and Back View, 12 way



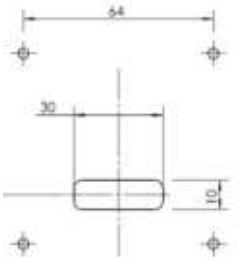

Panel Cutout : 12 way




Front and Back View, 16 way




Panel Cutout : 16 way




All panel dims in mm.
Corner Rads all M3



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