Storm

3000 Series Keypads

Responsive keypads
for industrial use

- **Reliable data entry in sheltered outdoor or indoor locations**

- **Weather, water and dust resistant (IP54)**

- **4 key, 12 key and 16 key formats**

- **Raised "home pip" on the "5" key**

- **Simple 'row and column' circuit matrix, terminated by a male, gold-plated, square pin, 0.1" (2.54mm) pitch connector with locking ramp**

- **Can be fixed to a flat surface or under panel mounted for a flush, low profile installation**

UK   Email: sales@storm-interface.com   Tel: +44 (0)1895 431421
USA   Email: sales.usa@storm-keypads.com   Tel: +1 (630) 472 5360

www.storm-interface.com

⚡torm

3000 Series responsive and reliable keypads

Suitable for general service or sheltered outdoor use. Using the proven Storm switch technology, these keypads are splashproof and suitable for use in most light industrial applications.

Overall Dimensions
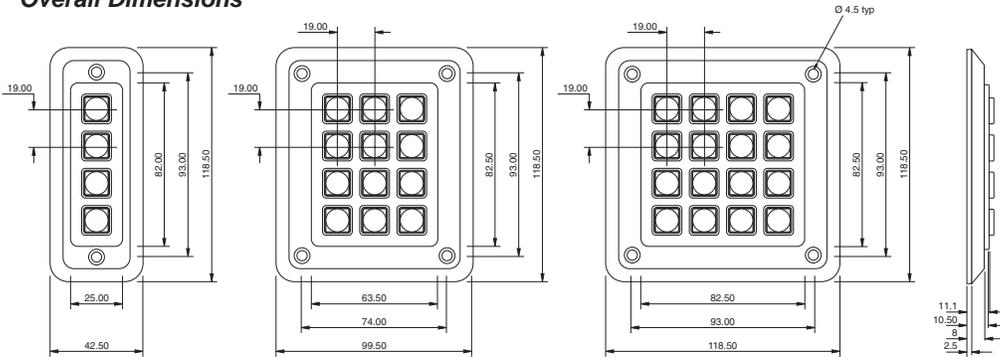
Part No.s
3K0421 (F1-F4)
3K0411 (← ↓↑ →)

3K12T1 (Tel. Format)
3K1201 (Calc. Format)

3K16T1 (Tel. Format)
3K1601 (Calc. Format)

Mounting & Connection Details

All dimensions are in mm

Panel Cut-out Details for Under Panel Mounting

Sealing Gasket *(Not supplied with 4000 series)*

Panel Cut-out Details for Top Panel Mounting

Countersunk Fixing Screws *(Not Supplied)* *(Threads must be sealed to prevent water ingress)*

Sealing Gasket *(Not supplied with 4000 series)*
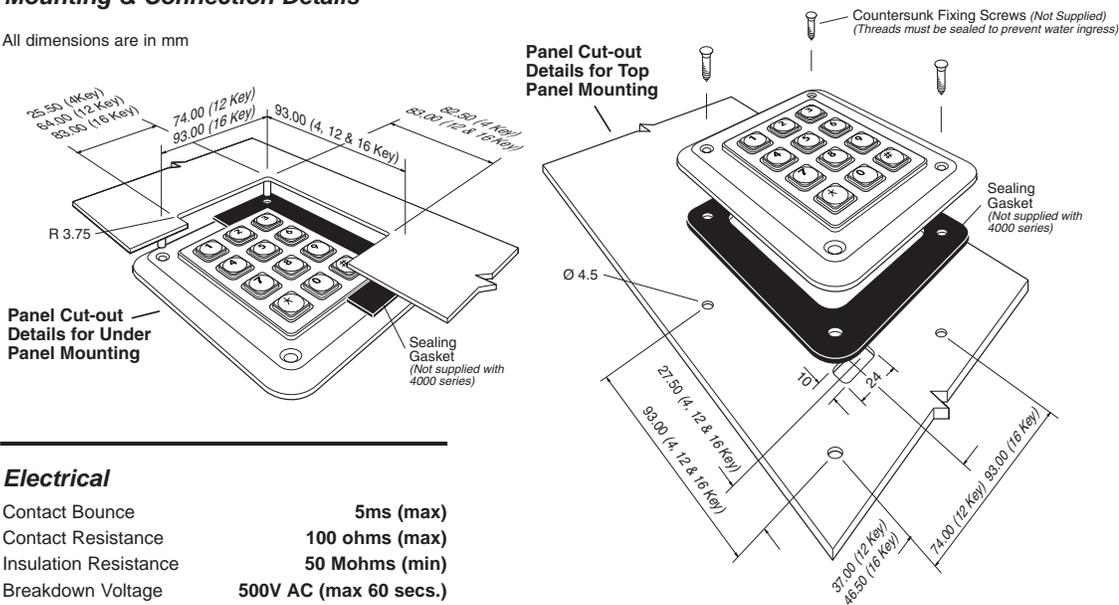
Connection Details for 4 Key Keypad

CONTACT CONNECTIONS
5 4 3 2 1
(As viewed from rear of keypad)

A 1
B
C
D
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)

A 1 2 3
B
C
D
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)

A 1 2 3 4
B
C
D
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

Electrical

Contact Bounce	**5ms (max)**
Contact Resistance	**100 ohms (max)**
Insulation Resistance	**50 Mohms (min)**
Breakdown Voltage	**500V AC (max 60 secs.)**
Operating Voltage	**24V DC (max)**
Operating Current	**50mA (max)**

Mechanical

Operational Life	**2 million cycles (min) per key**
Keytop Travel	**1.4mm nominal**
Actuation Force	**180gms nominal**
Connector	**0.1" pitch, gold plated square pin, male connector**

Environmental

Water / Dust Sealed	**IP54 (when mounted to suitable enclosure)**
Operational Temperature	**-10°C to +85°C (Dry)**

Material

Casing	**General Service Polymer (mid grey)**
Keytops	**General Service Polymer (mid grey)**
Keytop Legends	**Engraved**
Contact Circuit	**Gold on Nickel plated FR4**

Accessories

Item	Stock No.	Notes
PC Interface	4200-00[x]	RS232
Rear Casing Providing space for additional components or circuitry (12 key formats only)	RC12020[x]	Supplied complete with fixing hardware, sealing gaskets and fixing instructions.
Blank Keytops set of four	1K0000[x]	Supplied without keytop graphics. Suitable for engraving.
Privacy Shield Provides PIN / Entry Code security	1KFS020[x]	Supplied complete with fixing hardware, sealing gaskets and fixing instructions. 12 key only.

⚡torm **Interface**

USA Office:
Storm Interface
600 Enterprise Drive
Oak Brook
Illinois 60523 USA

Tel: +1 (630) 472 5360
Fax: +1 (630) 472 5364
Email: sales.usa@storm-keypads.com

UK Office:
Storm Interface
14 Bentinck Court
Bentinck Road
West Drayton
Middlesex UB7 7RQ

Tel: +44 (0)1895 431421
Fax: +44 (0)1895 431132
Email: sales@storm-interface.com

www.storm-interface.com

Whilst every effort is made to ensure details are correct at time of print, specifications are subject to change without notice.

CE

BSI REGISTERED

UKAS QUALITY MANAGEMENT 003

FM 39602