

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*



www.storm-interface.com

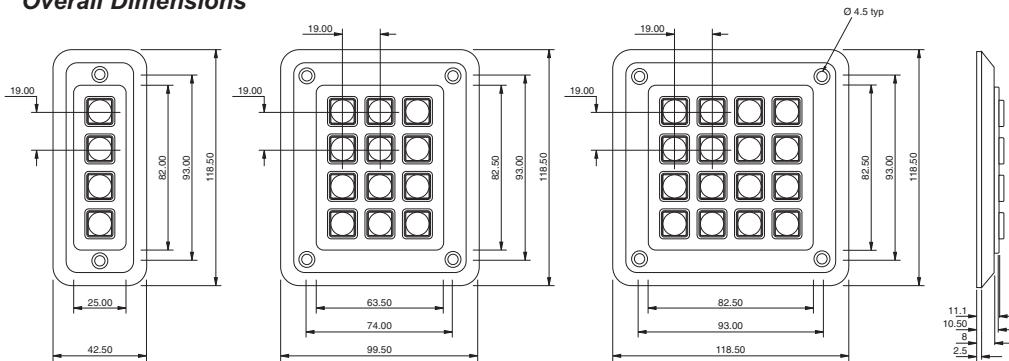
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storm

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



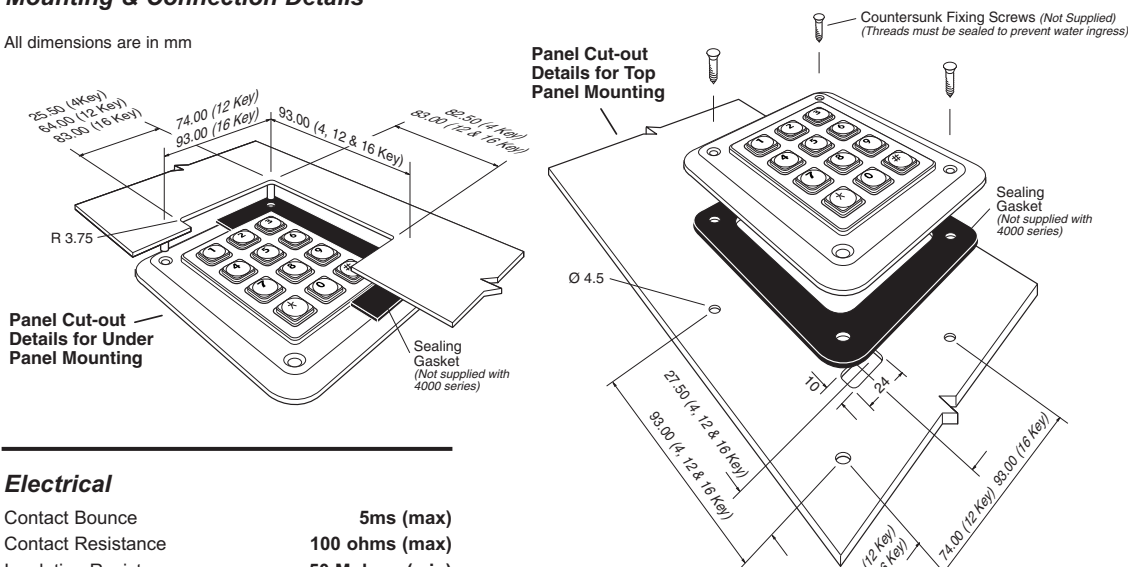
Part No.s
3K0421 (F1-F4)
3K0411 (← ↓ ↑ →)

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

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

Mounting & Connection Details

All dimensions are in mm



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	RC12020[x]	Supplied complete with fixing hardware, sealing gaskets and fixing instructions. Providing space for additional components or circuitry (12 key formats only)
Blank Keytops	1K0000[x]	Supplied without keytop graphics. Suitable for engraving. set of four
Privacy Shield	1KFS020[x]	Supplied complete with fixing hardware, sealing gaskets and fixing instructions. 12 key only. Provides PIN / Entry Code security

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



Designed & produced by
NIK Design
www.nikdesign.co.uk

3000-LIT-01 Rev 4
Nov 2008



FM 39602



Connection Details for 4 Key Keypad

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

A
B
C
D

KEY LOCATION
(As viewed from front of keypad)

CONTACT MATRIX	
CONN. 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
B
C
D

KEY LOCATION
(As viewed from front of keypad)

CONTACT MATRIX	
CONN. 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
B
C
D

KEY LOCATION
(As viewed from front of keypad)

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



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