

- Weather, water and dust resistant (IP65)
- Vandal resistant (20J BS EN 60068-2-75: 1997)
- Raised "home pip" on the "5" key
- High contrast keytops
- 4, 12 and 16 key formats

## 2000 SERIES Robust Keypads

Rapid,  
responsive  
and reliable  
keypads for  
industrial use



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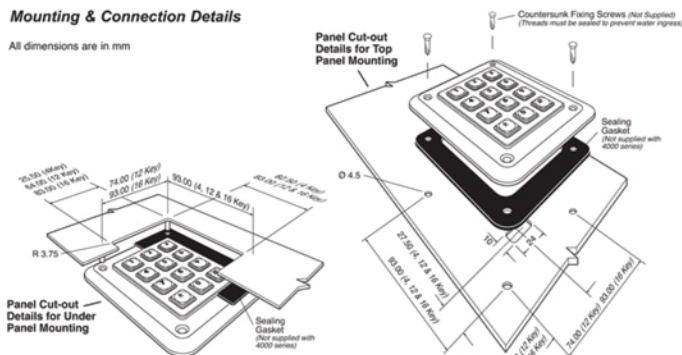


## 2000 Series robust keypads for harsh industrial use

Storm 2000 Series ruggedized Keypads are ideal for use in harsh industrial environments. They are constructed to survive in exposed, wet or dirty environments. Available in 4, 12 and 16 key configurations, these robust keypads can be fixed to the surface of a host enclosure or located beneath an aperture in a panel. Keys move with a positive "over-centre" action to provide a responsive tactile dynamic and reliable data entry. This excellent tactile response combined with a home pip and high contrast keypad characters make these keypads accessible for those with visual impairment.

### Mounting & Connection Details

All dimensions are in mm



### Connection Details for 4 Key Keypad

#### CONTACT CONNECTIONS

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

A	1
B	2
C	3
D	4

#### KEY LOCATION

(As viewed from front of keypad)

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

#### KEY LOCATION

(As viewed from front of keypad)

CONTACT MATRIX	
CONEC. 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)

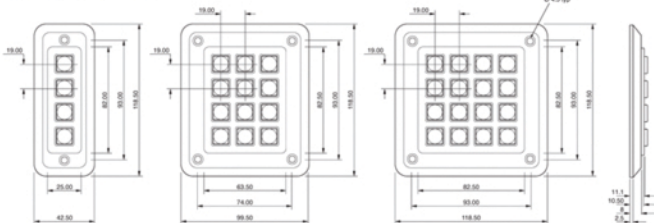
A	1	2	3	4
B	5	6	7	8
C	9	10	11	12
D	13	14	15	16

#### KEY LOCATION

(As viewed from front of keypad)

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

### Overall Dimensions



### 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	4 million cycles (min) per key
Keypad Travel	1.4mm nominal
Actuation Force	180ms nominal
Connector	0.1" pitch, gold plated square pin, male connector

### Environmental

Water / Dust Sealed	IP65 (when mounted to suitable enclosure)
Operational Temperature	-25°C to +85°C (Dry)

### Material

Casing	General Service Polymer (black)
Keypads	General Service Polymer (translucent)
Contact Circuit	Gold on Nickel Plated FR4

### Part Numbers

2K04110[X]	4 key Pad - Cursor
2K04210[X]	4 Key Pad - Function
2K12010[X]	12 Key Pad - Calculator
2K12701[X]	12 Key Pad - Telephone
2K16010[X]	16 Key Pad - Calculator
2K16710[X]	16 Key Pad - Telephone



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