

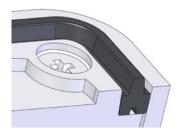
# 720 TFX Series Sealed and Rugged Keypads

These tough, water resistant keypads feature moving, tactile keys with a responsive 'over-centre' action and are designed for use in harsh industrial environments. High contrast white keytops are permanently laser engraved with black characters.



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.



### Connection Details

### **Connection Details** for 4 Key Keypad

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

Α
В
c
D
KEY LOCATION
(As viewed from front of keypad)

MATRIX				
CONNEC. PIN	ROW/ COLUMN			
1	common			
2	D			
3	С			
4	В			
5	Α			

CONTACT

### **Connection Details** for 12 Key Keypad

CONTACT CONNECTIONS				
• • • • • • •				
8 7 6 5 4 3 2 1				
(As viewed from rear of keypad)				
1 2 3				
A				
В				
c 🗆 🗆 🗆				
D				
KEY LOCATION				
(As viewed from front of keypad)				

	CONTACT MATRIX				
CONNEC. PIN	ROW/ COLUMN				
1	A				
2	В				
3	1				
4	2				
5	3				
6	-				
7	D				
8	С				

### **Connection Details** for 16 Key Keypad

•	•	•	•	•	•	•	•
8	7	6	5	4	3	2	1
As	vie	wec	d fr	om	rea	ar o	f keyp
		2		2	4		
Α	-	~	ıŕ	3	4	1	
A [	_			_		_	
В							
сΓ	$\neg$			╗		1	
DΓ	=			╡		1	

CONTACT MATRIX					
CONNEC. PIN	ROW/ COLUMN				
1	Α				
2	В				
3	1				
4	2				
5	3				
6	4				
7	D				
8	С				
2 3 4 5 6	1 2 3 4 D				

### **Electrical**

Contact Bounce Contact Resistance Insulation Resistance Breakdown Voltage Switch Rating Connection

5 ms (max) 100 ohms (max) 50 Mohms (min) 500 V AC (max 60 secs.) 24V DC 50mA (max) X-Y Matrix

#### Mechanical Operational Life 2 million cycles (min) per key Keytop Travel 1.4mm nominal

Actuation Force 150 grams nominal 0.1"pitch, gold plated square pin Mating Connector Molex 2695 Series or equivalent

### **Performance**

Connector

Operational Temp Impact Rating Vibration/Shock Water / Dust sealed -20°C to 60°C

ETSI 300 019 5M3 IP65 (when fixed to suitable panel)

## **Part Numbers**

7203-04C020 720TFX SERIES 4 KEY 7203-12T020 720TFX SERIES 12 KEY 720TFX SERIES 16 KEY 7203-16T020

### **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

Replacement Seals -- go to www.storm-interface.com

## **Dimensions**

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







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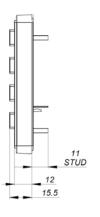
Install the keypad onto the surface of a panel as follows :-

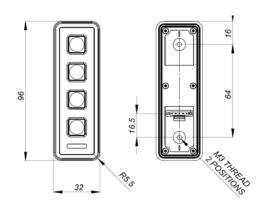
- Fit the seal to the rear of the keypad
- Place the keypad onto the panel and fit the self locking nuts to the studs on the back
- Recommended tightening torque 50Ncm

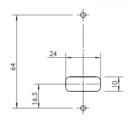
Side View: 4, 12, 16

Front and Back View: 4 way

Panel Cutout: 4 way

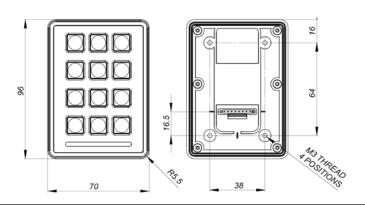


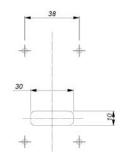




Front and Back View, 12 way

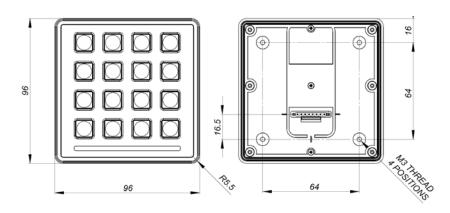
Panel Cutout: 12 way

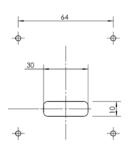




Front and Back View, 16 way

Panel Cutout: 16 way





All panel dims in mm. Corner Rads all M3

