Rugged Industrial 18 Key Keyboard

MECHANICAL KEY OPERATION | **BACKLIT ILLUMINATED** | **WIDE RANGE TEMPERATURE** | **60,000 HOURS MTBF**

Overview

A rugged industrial 18 key keyboard designed to offer a compact footprint size with quality Stainless Steel construction. This 18 key keyboard functions much like a telephone keypad, in that each press of a key rotates it through different character outputs. With custom language, layout and coding options we can design it for use in any application. See all of the specifications below, and if something isn't listed that you may require, contact us and let us know as we may already have the solution you need!

General Specifications

GENERAL	
Keys	Sealed mechanical
Key Travel	0.4mm
Life Expectancy	>1 million switch cycles
Operating Force	160gf ± 50gf
MTBF	60,000 hours
MTTR	20 minutes
Key Illumination	Full key illumination via LED back lighting, powered via USB

ELECTRICAL AND ELECTRONIC	
Supply Voltage	5V DC ± 5%
Supply Current	<480mA illuminated
Interface	USB

MECHANICAL	
Material	Stainless Steel (304) Case / Bezel, Wear & Chemical resistant Polyester overlay
Mounting	Cased, Bezel, Rear or Flush mount
Dimensions (mm)	Reference Dimensions on Page 3
Weight (g)	500g Cased, 200g Uncased

ENVIRONMENTAL	
Operating Temperature	-40°C to +85°C
Relative Humidity	95% non-condensing
IP Seal Level	IP22
Vibration	5G, 5-2KHz any plane
Conformal Coating	PCB is protected using conformal coating at 50µm (typical) thickness.

CUSTOMISATION	
Colour	Full customisation of case colour available
Coding	Key operations can be customised to fit software needs
Dimensions	Physical dimensions can be customised
Front Sheet	All languages and custom variants available
Key Illumination	Full or part key illumination via LED back lighting

WARRANTY	
Warranty Period	3 Years standard return to base. Extendable to 5 Years if required

STANDARD KEY CODES			
KEY	1st PRESS OUTPUT	2nd PRESS OUTPUT	3rd PRESS OUTPUT	4th PRESS OUTPUT
1	1	A	B	C
2	2	D	E	F
3	3	G	H	I
4	4	J	K	L
5	5	M	N	O

(vertical left margin) COMPUTERS | WORK STATIONS | MONITORS | KEYBOARDS | TRACKERBALLS

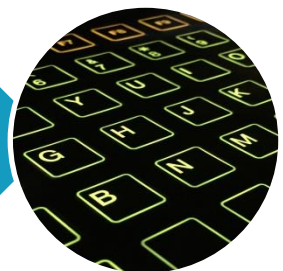| 6	6	P	Q	R
7	7	S	T	U
8	8	V	W	X
9	9	Y	Z	
0	0	SPACE		
.	.	-	+	
ENT	ENTER			
BKS	BACKSPACE			
↑	ARROW UP			
DEL	DELETE			
←	ARROW LEFT			
↓	ARROW DOWN			
→	ARROW RIGHT			

Prefer to have your keyboard look a little different? You can choose any colour case, bezel and frontsheet you like!

You can have any key output anything you want, from key combinations to multiple characters, on a single key!
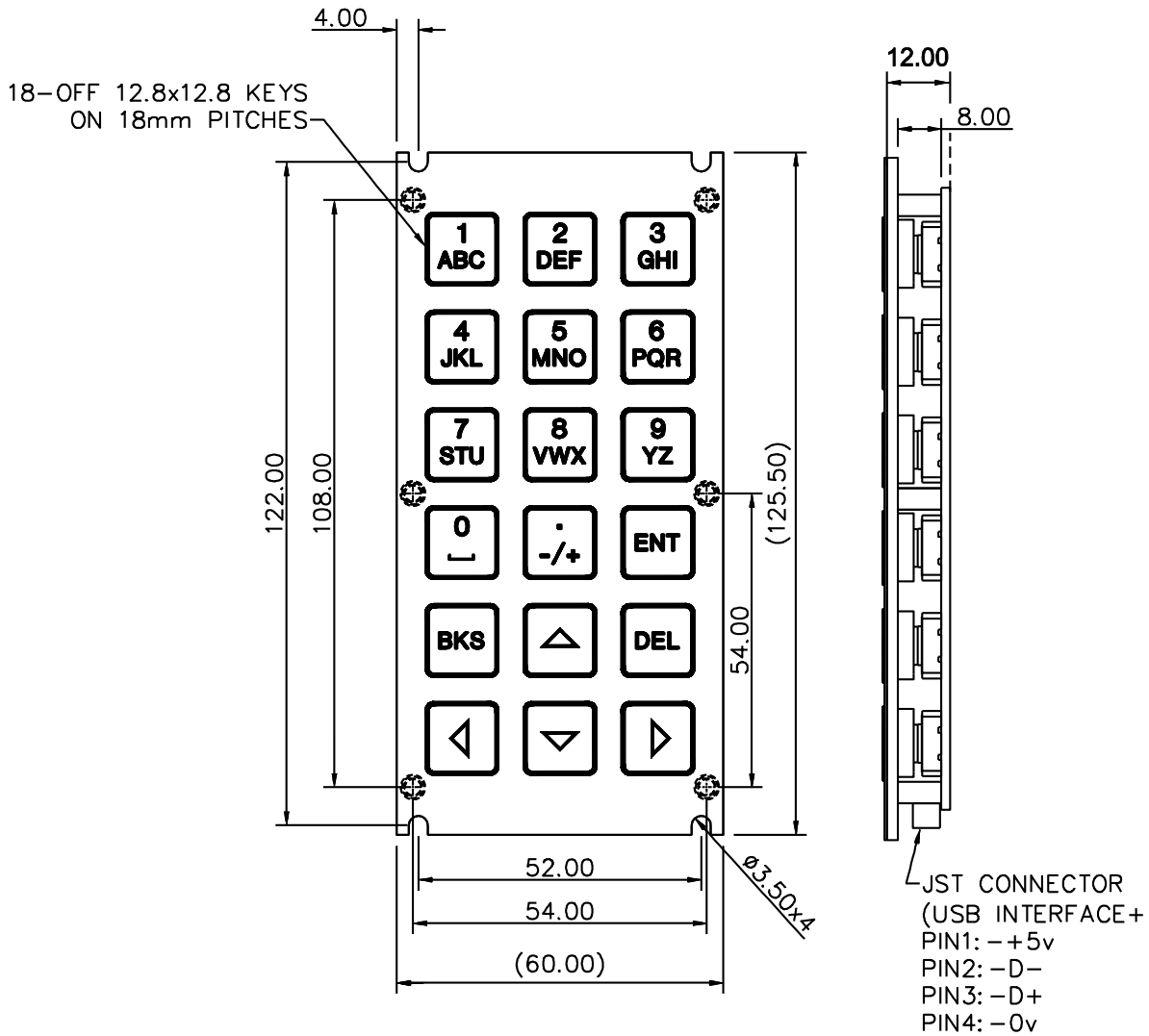
If you require a certain language or even a custom layout with keys detailing a custom function such as **OPEN DOOR**, we can do this for you too!

Need to use your keyboard in a dark room? Our keyboards can be backlit illuminated via LED backlight, with any colour combinations!

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Dimensions

18—OFF 12.8x12.8 KEYS
ON 18mm PITCHES

4.00

12.00

8.00

122.00
108.00
(125.50)
54.00

52.00
54.00
(60.00)

ø3.50x4

1 ABC	2 DEF	3 GHI
4 JKL	5 MNO	6 PQR
7 STU	8 VWX	9 YZ
0	. -/+	ENT
BKS	△	DEL
◁	▽	▷

JST CONNECTOR
(USB INTERFACE+
PIN1: —+5v
PIN2: —D—
PIN3: —D+
PIN4: —0v

COLOURS
LEDBACKGROUND COLOUR :—GRAPHITEBLACK,RAL9011.
GEND/BORDER COLOUR:—TRANSLUCENT WHITE.
ILLUMINATION COLOUR:—WHITE.

CONNECTOR INFORMATION

ID	MANUFACTURER	PART NUMBER	CONTACTS	ORIENTATION	MATING CONNECTOR
CN2	JST	S4B-PH-K-S(LF)(SN)	4	Right Angle	JST 04CR-6H-P

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