7 KEYS VERTICAL
MPN : KIPL 22 - 5819

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The Kee to Excellence...
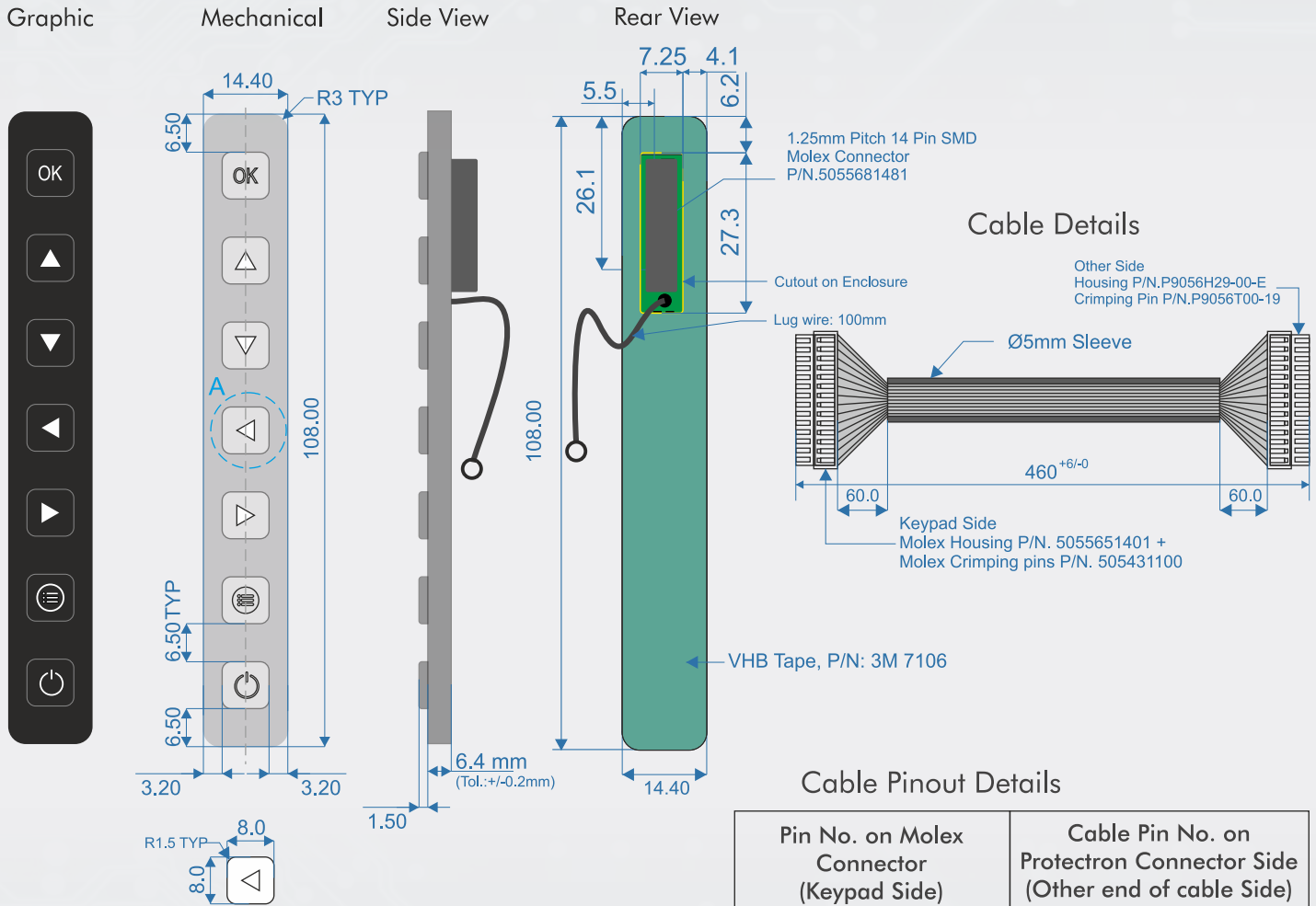
Keetronics has earned an enviable reputation for the design and manufacture of advance input devices providing the highest quality and reliability for various diverse applications. With exceptionally talented and experienced team with a collective experience of more than 30 years, Keetronics is qualified to meet the challenges of the Defense sector and provide end to end solutions for the user interface required for the products required in the battle field.

7 Keys Display Vertical Keypad 19 inch - CAD Drawing - PCB No. 22-5819A

Graphic   Mechanical   Side View   Rear View

14.40
6.50
R3 TYP

OK

26.1
27.3

7.25 4.1
5.5
6.2

1.25mm Pitch 14 Pin SMD Molex Connector P/N.5055681481

Cutout on Enclosure

Lug wire: 100mm

108.00

6.50TYP

6.50

3.20   3.20

1.50

6.4 mm
(Tol.:+/-0.2mm)

14.40

VHB Tape, P/N: 3M 7106

Cable Details

Other Side
Housing P/N.P9056H29-00-E
Crimping Pin P/N.P9056T00-19

Ø5mm Sleeve

460 +6/-0

60.0   60.0

Keypad Side
Molex Housing P/N. 5055651401 +
Molex Crimping pins P/N. 505431100

R1.5 TYP   8.0
8.0

Details A

Standard Operating Characteristics / Specifications :

1. LED Operating Voltage: 3.3/5V DC

2. Contact Resistance: 10 Ohms

3. Life Expectancy : 1 Million operations of Metal Dome
   (Tested under standard condition)

4. Activation Force : 280-350 grams

5. Contact Bounce: 10 milliseconds

6. Operating Temperature : -20°C to +70°C

7. Humidity : 95% RH/400C/48 Hrs.

8. Degree of protection - Ip67 (Test to be conduct by customer)

9 Dimensional Tolerance : +/-0.2mm

10. Refer page 3 for keyboard pasting instruction

Cable Pinout Details

Pin No. on Molex Connector (Keypad Side)	Cable Pin No. on Protectron Connector Side (Other end of cable Side)
1	14
2	13
3	12
4	11
5	10
6	9
7	8
8	7
9	6
10	5
11	4
12	3
13	2
14	1

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Output Connector: J1

PIN	DESCRIPTION
1	VCC_3V3
2	NC
3	GND
4	NC
5	GND
6	LED/GREEN
7	LED/ORANGE
8	KEY_OK
9	KEY_RIGHT
10	KEY_LEFT
11	KEY_DOWN
12	KEY_UP
13	KEY_MENU
14	KEY_POWER

VCC_3V3   J1

```
1
2
3
4
5
6  LED/Green
7  LED/Orange
8  KEY_OK
9  KEY_RIGHT
10 KEY_LEFT
11 KEY_DOWN
12 KEY_UP
13 KEY_MENU
14 KEY_POWER
```

CON14
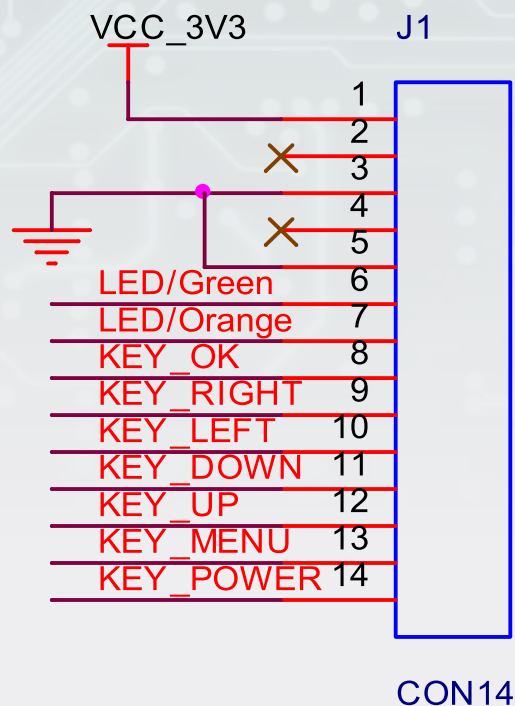
All Keys are connected to common ground.

Test Procedure

1. Connected 3.3V power to pin no.1 and pin no.3
2. LED/Green (Pin no.6) and LED/Orange (Pin no. 7) are logic input signals from customer.
3. For operation of input signal refer below table

LED/Orange (Pin 7)	LED/Green	DESCRIPTION
0	0	XXX
0	1	All LED's ON
1	0	Only power key LED blink, all other LED's OFF
1	1	XXX

Signal Details

0 : Ground Signal
1 : 3V3 Signal
XXX : No Operation
Blink Interval : 500ms

4. Keys operations are check with keypad tester.

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Keypad Pasting Instruction/ Adhesive Properties

1. Clean your hands and wipe it with a clean cotton cloth - 3M make.

2. Check that your hands are oil, grease, dust free.

3. Clean and wipe the surface area with IPA on which the keyboard is to be pasted.

4. Check the pasting area is dry, oil and dust free.

5. Check the pasting area flatness, it should be without scratches, bumps and dent marks.

6. Take the keyboard remove 1/4th of the release paper from the keyboard.

   Don't remove entire release paper.

7. Align the keyboard to the pasting area and slowly remove the remaining release paper.

8. Do not apply the more pressure on keys for pasting the keyboards.

9. Take care that the adhesive is free of dust and finger prints.

10. Do not try to re-align the keyboard once it is pasted.

11. Adhesion curing time is minimum 4 Hrs., before that do not try to remove keyboard.

12. For more details refer handling instruction sheet provided along with keyboard dispatch.

<div align="center">- End -</div>

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