



# Instruction Manual

## JSK-120

### Contents

Section	Page	Section	Page
1. Description.....	1	4. Calibration .....	2
2. Mounting.....	2	5. Disassembly .....	3
3. Connections .....	2		

## 1. Description

- The JSK-120 is a single axis joystick designed for use with our Pro-160 / 360 series controllers.
- It has a hall effect sensor for long life.
- It has a removable detent to identify the center off position.
- It has a removable end stop to limit the travel to 120 degrees.
- All parts are replaceable.

## 2. Mounting

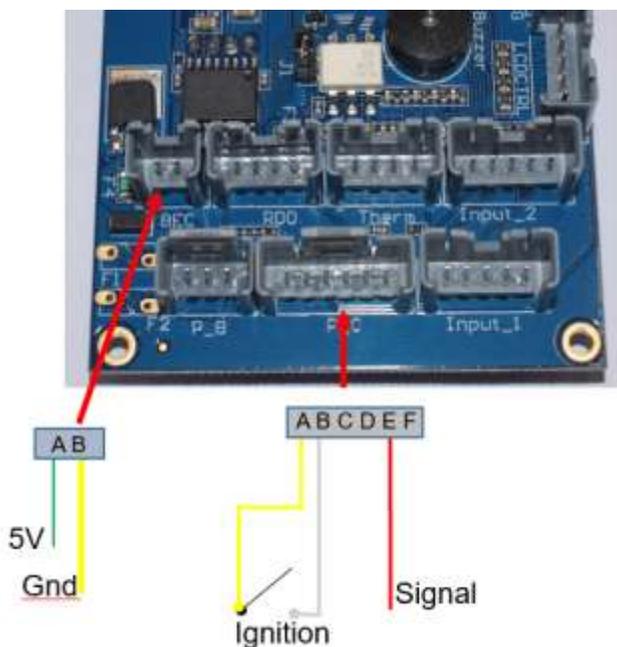
The JSK-120 requires a 47mm diameter hole in the mounting panel. There is no limitation on the panel thickness.

## 3. Connections

The JSK-120 uses the Vishay 981HE sensor and the wiring colours are somewhat counter intuitive....

- Green = +5V
- Red = Signal
- Yellow = Ground [0V]

These should be connected to the Pro-160 / 360 control board as follows.



## 4. Calibration

The Pro-160 / 360 should have the throttle setting / input mode set to "volt".  
If the center detent is being kept, joystick mode should be set to "on".  
The pot learn procedure should then be carried out as described in the controller manual.

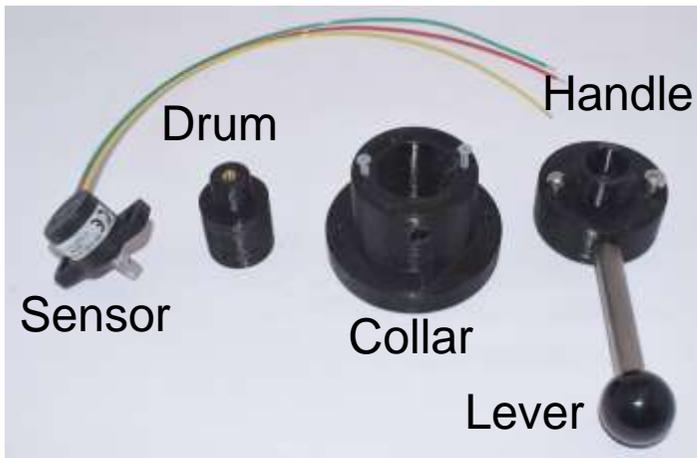
## 5. Disassembly

The JSK-120 can be dismantled as follows.

1. Insert a 1.5 mm allen key through the collar hole into the drum grub screw.
2. Undo the M4 handle retaining screw.



3. Place the JSK-120 handle side down and lift off the collar / drum / sensor assembly. Take care to retain the ball bearing, spring and serrated washer.
4. Loosen the drum grub screw and the sensor holding screws, then separate the parts.



## 6. Reassembly

1. Insert the M4 handle retaining screw into the handle and place the handle face down. Drop the serrated washer onto the part of the screw still visible.
2. Place the spring into its hole and position the ball bearing on top.
3. Apply silicon grease to the bearing surfaces of the drum and insert it into the collar with the grub screw aligning with the hole. Insert an allen key through the hole into the grub screw.
4. Place the collar and drum assembly onto the handle.



5. Carefully pick up all three parts and tighten the handle retaining screw.
6. Insert the sensor shaft into the drum, the wires should be at the top, nearest to the grub screw, the shaft flat should align with the grub screw.
7. Fit the sensor holding screws and then gently tighten the grub screw.