## P170



#### **Features:**

- 100,000 cycle life
- Switch option
- Metal shaft / bushing
- Conductive plastic element
- RoHS compliant
- Customizable



#### **Description:**

Our contacting panel potentiometers are designed for high quality, long lasting panel controls. We offer a wide product range designed to serve both commercial applications and high performance position sensors with a wide variety of features such as the P170 switch option.

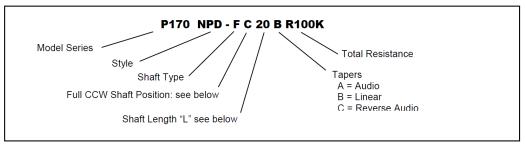
#### **Applications:**

- Audio/video controls
- Industrial and commercial joysticks
- Power supply
- Controls for medical equipment
- Pedal position

### **Model Styles**

Side adjust, Solder lugs	P170N
Side adjust, Solder lugs with switch	P170S
Side adjust, PCB pins	P170N2
Side adjust, PCB pins with switch	P170S2
Top adjust, PCB pins	P170NP1
Top adjust, PCB pins with switch	P170SP1
Rear adjust, PCB pins	P170NPD
Rear adjust, PCB pins with switch	P170SPD

## **Ordering Information**



P170



## **Electrical Specifications**

•	
Resistance range, Ohms	100-1M (for "B" taper), 5K-1M (for other tapers)
Standard resistance tolerance	±20%
Residual resistance	10 ohms max.
Input voltage, maximum	200 Vac max.
Power rating, Watts	0.1W ("B" taper), 0.05W (other tapers)
Dielectric strength	500Vac, 1 minute
Insulation resistance, minimum	50M ohms at 500Vdc
Sliding noise	100mV max.
Actual electrical travel, nominal	240°
Switch contact resistance	50M ohms max.
Switch power rated	1.0A at 12 Vdc

## **Mechanical Specifications**

Total mechanical travel	260° ±10°
Static stop strength	40 oz-in
Rotational torque	0.5 to 1.25 oz-in
Switch rotational angle	30° ±10°

## **Environmental Specifications**

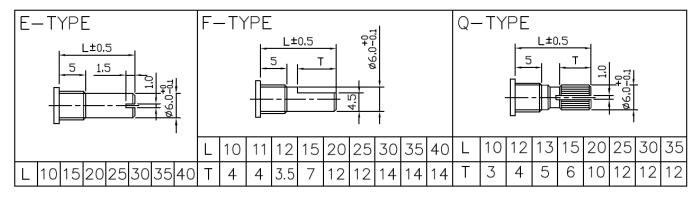
Operating temperature range	-20°C to +70°C
Rotational life (potentiometer)	100,000 cycles
Rotational life (switch)	15,000 cycles

Issue A 10/2016 Page 2

P170

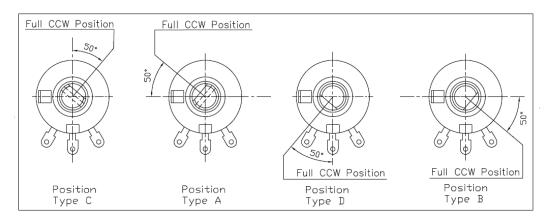


## **Shaft Types**



### **Shaft Position (F-Type Shaft)**

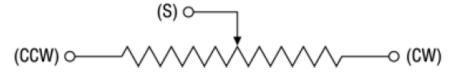
Dashed lines on Type "C" and Type "A" shows position of adjustment slot for E-Type and Q-Type shafts



### Standard Resistance Values, Ohms

100 200 500 1K 2K 5K 10K 20K 50K 100K 200K 500K 1MEG

## **Circuit Diagram**

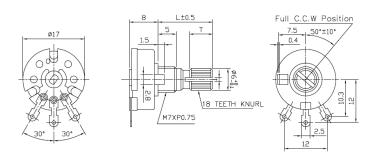


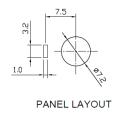
P170



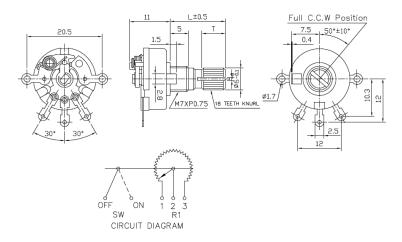
### **Outline Drawings**

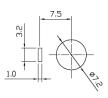
#### MODEL P170N (Side Adjust, Solder Lugs)





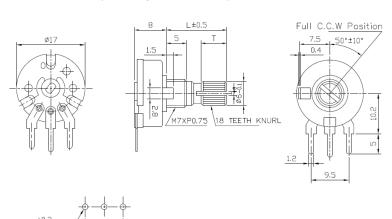
#### MODEL P170S (Side Adjust, Solder Lugs with Switch)

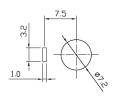




PANEL LAYOUT

#### MODEL P170N2 (Side Adjust, PCB Pins)





PANEL LAYOUT

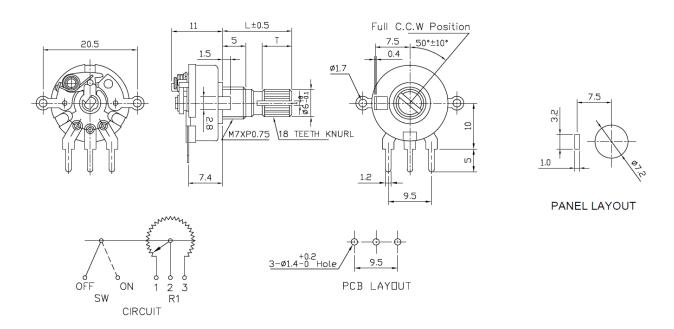
PCB LAYDUT

P170

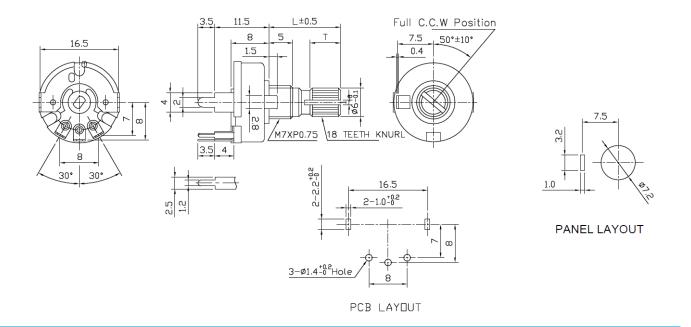


## **Outline Drawings**

#### MODEL P170S2 (Side Adjust, PCB Pins with Switch)



#### MODEL P170NP1 (Top Adjust, PCB Pins)

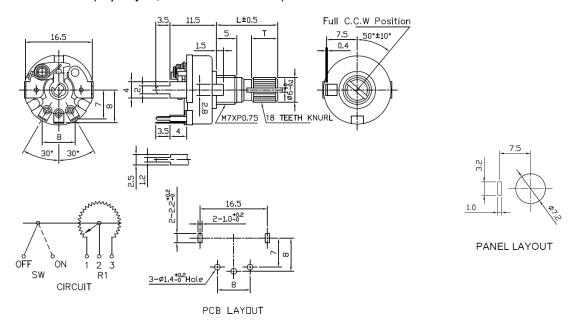


P170

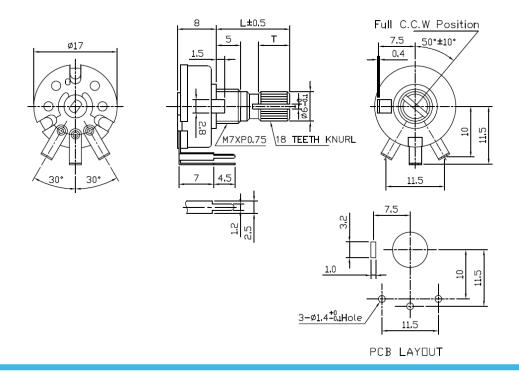


## **Outline Drawings**

#### MODEL P170SP1 (Top Adjust, PCB Pins with Switch)



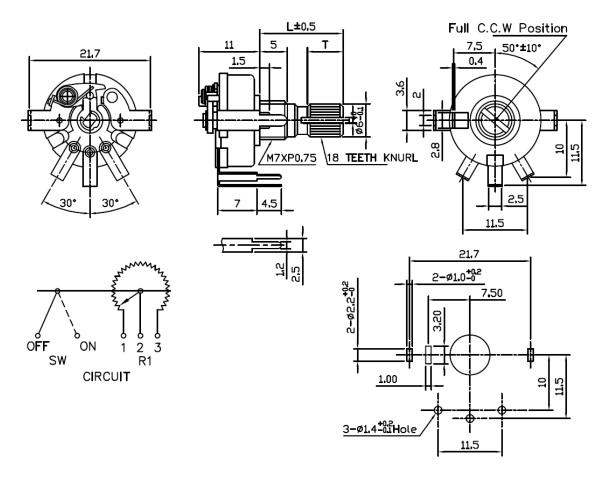
#### MODEL P170NPD (Rear Adjust, PCB Pins)





## **Outline Drawings**

MODEL P170SPD (Rear Adjust, PCB Pins with Switch)



Issue A 10/2016 Page 7

## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for tt electronics manufacturer:

Other Similar products are found below:

L083S392LF L061S391LF L091S224LF L061S220LF BCN164A562J7 62PR25KLF CHP1501R00FLF BCN164AB470J7 898-3-R150K
66XR10 66XR200K 66XR2K 66XR50 67WR1MEG 67WR200KLFTB 67ZR200 68WR5K 68XR2MEG 72PXR10K 72XR2.5K 8109
82PR25K 84WR10KTR PWC2512-330RJI OPB660N OPB748WZ OPB842W51Z OPB870T55 OPF430 P110KV1-0Y20BR50K P170SP1FC15AR10K 89XHR10K L083C101 91XR5K SML100M12MSF PFC-W0805LF-03-2870-B 2627 CR200L.5 RC07GF220J RC55LF-D196R-B-B 3371R5KL.5 HM00-01800 HM71-10220LFTR 3371R5KL.25 L083C122 WH25-47RJI WH5-100RJI 040585XM 6679-420-0
CHP1-100-1R00-F