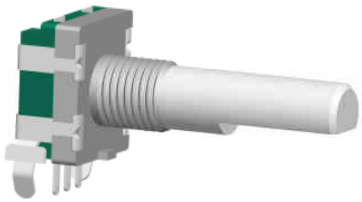
SONG HUEI ELECTRIC CO.,LTD

11mm Metal Shaft Rotary Encoder With Push-On Switch

ED1112S

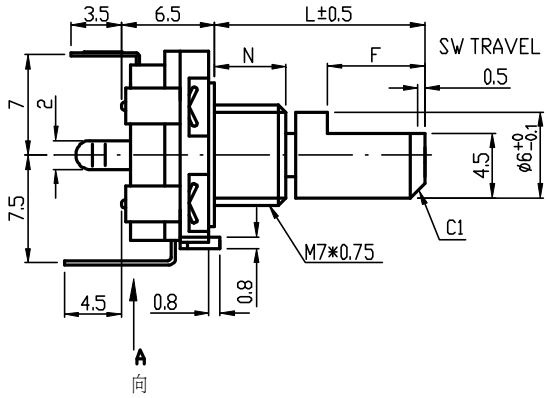


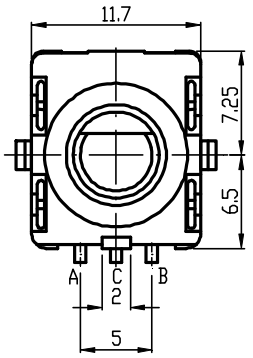
Part Number

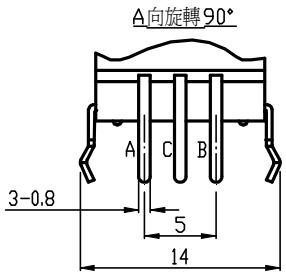
ED1112S – 20P – 20C – 25 F

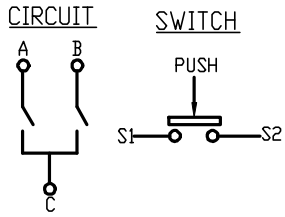
- 20P: With switch
- 20C: Pulses
- 25: Clicks
- F: Shaft lengeth
- Shaft typ

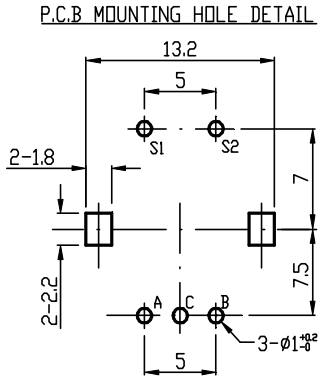
Dimensions



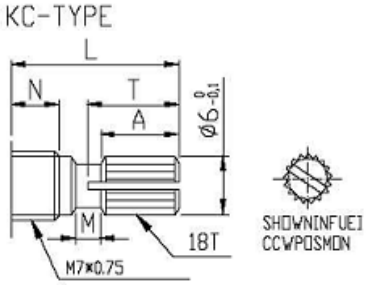




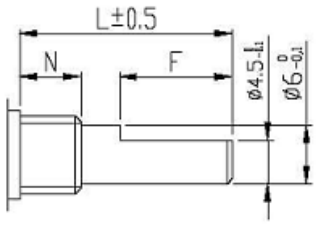




Shaft Type



N	5	7			
L	10	12	15	20	30
T	25	5	7	12	14
A	2	4	6	10	12
M	0.5	1	1	2	4



N	5	7	
L	15	20	25
F	7	10	12

http://www.song-huei.com.tw

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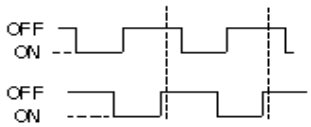
11mm Metal Shaft Rotary Encoder With Push-On Switch

1.Push-On Switch Specifications

Switch Circuit	**Single Pole and Single Throw (push on)**
Switch Travel(mm)	$0.5^{+0.4}_{-0.3}$ **mm**
Switch Operating Force	500^{+300}_{-300} **gf.**
witch Rating Power	**DC 5V 10mA (minimum ratings :DC 5V 1mA)**
Switch Contact Resistance	**First period：100mΩ, 200mΩafter the end of useful life is reached**
Switch Push Life	**20,000 Cycles (500cycles/H, shaft push load 1kgf. Max.)**

2.Electrical Characteristics

Power Rating	**DC 5V 0.5mA**
Insulation Resistance	**More than 10 MΩ at DC 250V 1 Minute**
Withstand Voltage	**1 Minute at AC 50V**
Sliding Noise	**t1,t3 ≤3mS(Test conditions:360°/S);t2≤2mS Using the C/R filter circuit is Recommended**
Resolution	**20 Pulses/360° for each phase .**
Phase Difference	**△T=0.25±0.17T**
Output Signal And Rotational Direction	**C.C.W direction** **A Signal** **B Signal** 
Working Temperature	**-10℃ ～ 70℃**
Storage Temperature	**-40℃ ～ 85℃**

3.Mechanical Characteristics

Total Rotational Angle	**360 °**
Rotational Torque	**30~200 gf.cm ※(Shaft Rotatable at-10℃ ~ +5℃)**
Shaft Push-Pull Strength	**5.1 Kgf.cm**
Number and Position Detent	• **20 detents (Step angle: 18°±3°)** • **0 detents (Step angle:360°)**
Shaft Play in Axial Direction	**0.4mm Max.**
Rotational Life	**30,000 Cycles Min. at a speed of 600 cycles/H**
Resistance To soldering Heat	**Manual Soldering: Less than 300℃ and quicker than 3 seconds. Auto soldering:260±5℃ 3~5 seconds.**