

# 11mm Encoder

## KLS4-EC1101 11mm encoder without switch

### Electrical characteristics

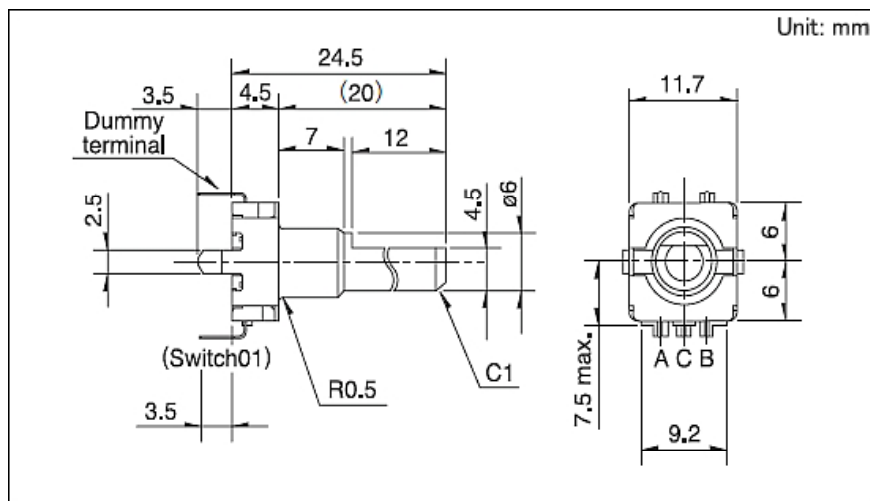
Rated Power:	DC5V, 10mA
Fluttering(Contact) :	t1,t3 < 3ms
Rotary Noise :	t2 < 2ms
Phase-Difference:	>0.08T
Insulation Resistance :	100MΩ at DC250V, 1mA. Min
Withstand Voltage:	300V AC, 1A for 1min.
Resolution:	Each output channel 15 pulses/360°

### Mechanical characteristics

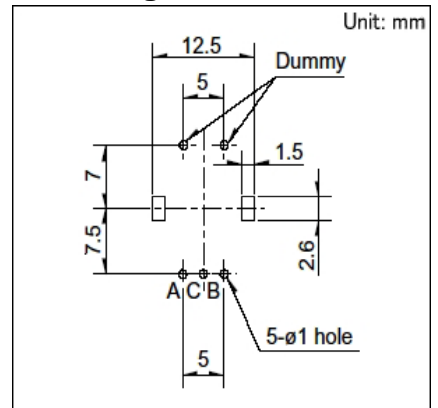
Total Rotation Angle:	360°(Endless)
Detent Torque:	30-100 gf.cm (0.3-1N.m)
Number and Position of Detents :	30 detents(Step angle:12°±3°)
Push-pull Strength of Shaft :	10Kgf Min. for 10 Sec
Shaft play in axial direction:	0.4mm Max.
Rotation Play at the Click Position:	4° Max.

### Endurance characteristics

Rotational Life :	15,000 cycles Min
Operating Temperature:	-40°C ~ +85°C:
Soldering :	260±5°C for 5 sec.



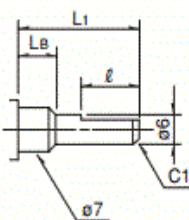
### Mounting Hole Dimensions



## Order Information

### KLS4-EC1101 - 5B- F20

EC1101:	Model Type
5A:	Pulse and Detent Code
	5A: 15 Pulse with 30 Deter
	5B: 15 Pulse without Deter
F20:	Shaft type and Length Code



### ● Detailed dimensions

L <sub>1</sub>	L <sub>B</sub>	l
20	7	10 (12)