

11mm Encoder

KLS4-EC1101S 11mm encoder with 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

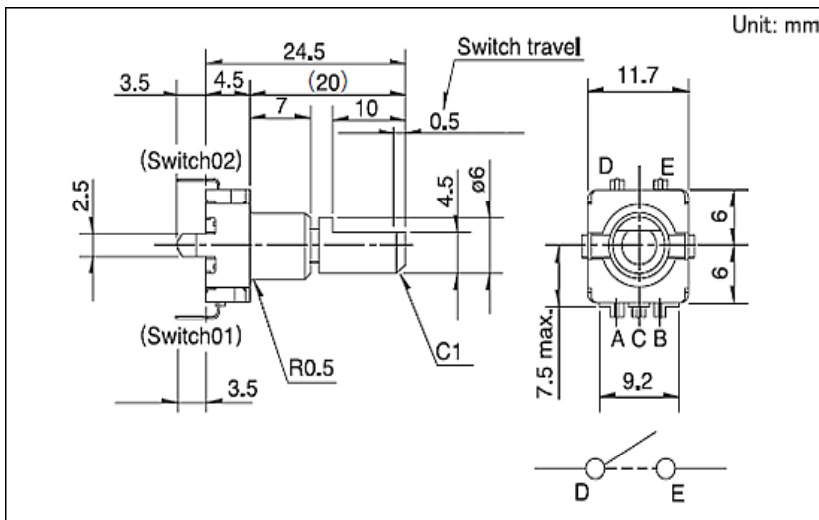
Total Rotation Angle:	360°(Endless)
Detent Torque:	30-100 gf.cm (0.3-1N.m)
Number and Position of Detents :	30 detents(Step angle:12°±3°)
Push-pull Strength of Shaft :	10Kgf Min. for 10 Sec
Shaft play in axial direction:	0.4mm Max.
Rotation Play at the Click Position:	4° Max.

Endurance characteristics

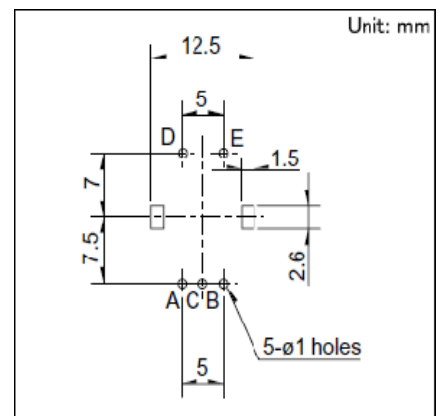
Rotational Life :	15,000 cycles Min
Operating Temperature:	-40°C ~ +85°C:
Soldering :	260±5°C for 5 sec.

Switch characteristics

Contact Resistance :	100 mΩ Max.
Switch Rating :	0.1A 5V DC
Switching Travel:	0.5±0.3mm
Operating Force:	6+2.5/-2N
Switch Life :	20,000 Cycles Min



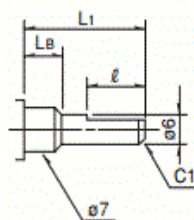
Mounting Hole Dimensions



Oder Information

KLS4-EC1101 S- 5B- F20

- EC1101: Model Type
- S: With Momentary Switch
- 5A: Pulse and Detent Code
 - 5A: 15 Pulse with 30 Detent
 - 5B: 15 Pulse without Detent
- F20: Shaft type and Length Code;



● Detailed dimensions

L ₁	L _B	ℓ
20	7	10 (12)