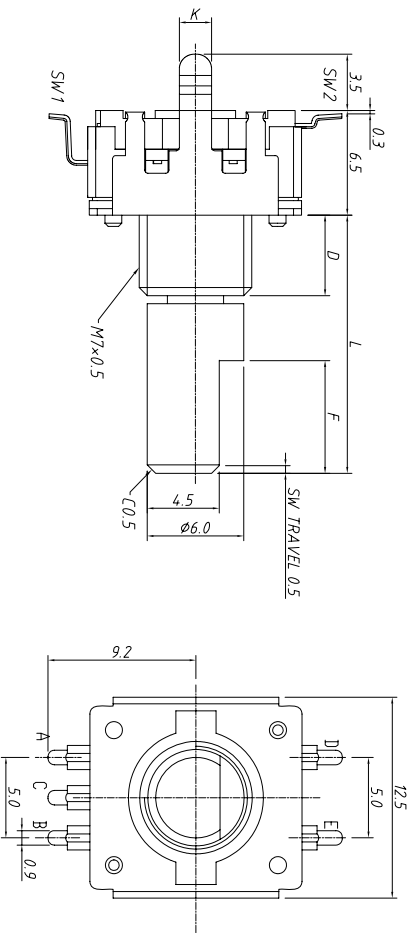
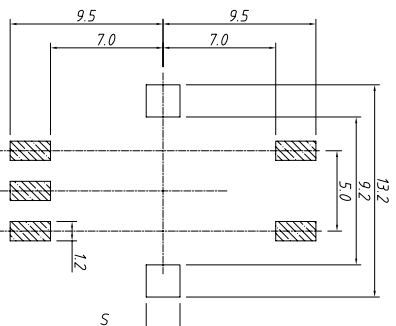




Electrical Characteristics
Rated Power: DC5V 5mA Max.
Output signal: A \ B 2signals
Resolution: 12 Pulses 360° / 24 Pulses 360°
Phase difference: 0.08T Min.
Sliding noise: 3mS Max.
Contact Resistance: 1 Ω Max.
Insulation resistance: 100M Ω Min. at DC 250V
Withstand voltage: AC300V / 1 min

Mechanical
Total rotation angle: 360°
Rotational Torque: 1kgf.cm Max
Click Torque: 20 ~150 gf.cm
Push-pull Strength of Shaft: 8.0kgf Min.
Number of Detents: 12 detents Step angle:30° $\pm$ 2°
24 detents Step angle:15° $\pm$ 2°
Without detents
Rotational Life: 30000 $\pm$ 200 cycles per 100gf.cm Min.
Temp. Range: -30 ° C ~ + 85 ° C
Soldering: 250 ° C 5Sec. Max.



PCB LAYOUT

Order Information:

L-KLS4-EC1208 S - B XX- XXX

Shaft type and Length Code

Pulse and Detent Code

- 6A: 12 Pulse with 12 Detents
- 6B: 12 Pulse without Detent
- 8A: 24 Pulse with 24 Detents
- 8B: 24 Pulse without Detent

Bushing:

☒	B	C
☐	D	5
☐	K	2.5
☐	S	2.6
☐		2.1

RoHS
12mm Encoder
Switch: S- with switch

Shaft type	D=5				D=7			
	L	11	11.5	12	13.5	14	15	17
F Shaft	F	5	5	5	7	6	7	7

Shaft type	D=5				D=7			
	L	11.5	12.5	15	20	15.3	20	25
F Shaft	F	5	5	7	7	7	7	14

GENERAL TOLERANCE	ANGLE TOLERANCE	PROJECTION	Description:
X. ± 0.50	X. $\pm 5^\circ$	UNITS	12MM SMD Encoder Metal
.X ± 0.38	.X $\pm 3^\circ$	SHEET SIZE	shaft with Switch
.XX ± 0.25	.XX $\pm 2^\circ$	KLS P/N:	KLS4-EC1208S-BXX-XXX

1	2	3	4	5	6	7	8
H	G	F	E	D	C	B	A
KLS ELECTRONIC CO., LTD.							