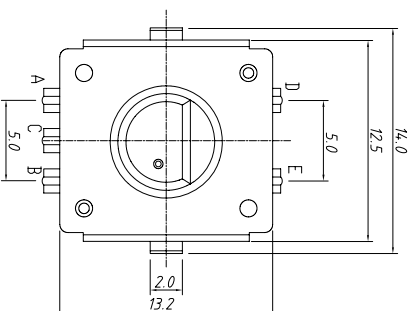
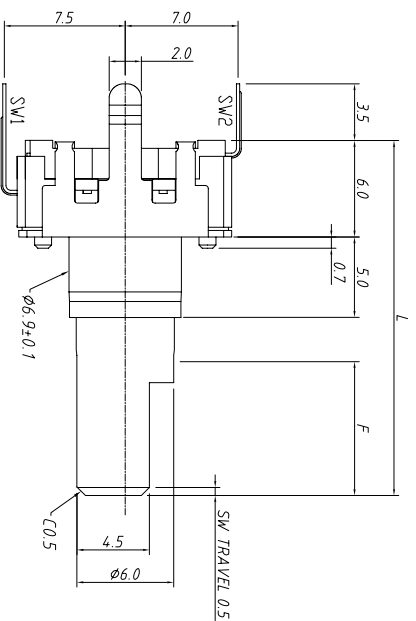




Electrical Characteristics

Rated Power: $DC5V$ $5mA$ Max.

Output signal: $A \setminus B$ 2signals

Resolution: 12 Pulses 360° / 24 Pulses 360°

Phase difference: 0.08 T 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: 8.0kqf Min.

Number of Detents: 12 detents Step angle: $30^{\circ} \pm 2^{\circ}$

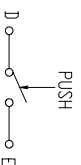
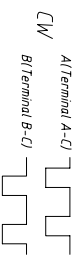
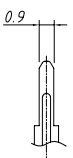
24 detents Step angle: $15^{\circ} \pm 2^{\circ}$

Without detents

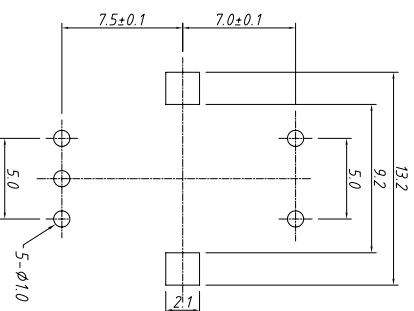
Rotational Life: 30000±200 cycles per 100gf.cm Min.

Temp. Range: -30°C to $+85^{\circ}\text{C}$

Soldering: 250 °C 5Sec. Max.



OUTPUT PHASE



Order Information:

L-KLS4-EK1204 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

PCB LAYOUT

RoHS

12mm Encoder

Switch: S- with switch

L	15	17.5	20	22.5	25	30
F	2.5	5	7	7	12	12

L	17.5	20	22.5	25	30	
F	5	7	7	12	10	

GENERAL TOLERANCE		ANGLE TOLERANCE		PROJECTION		 Description:	
X. ±0.50		X. ±5°		UNITS	mm	12MM Encoder Plastic shaft with Switch KLS4-EK1204S-BXX-XXX	
.X ±0.38		.X ±3°		SHEET SIZE	A4		
.XX ±0.25		.XX ±2°			KLS P/N:		
Draw by: Date		2015-09-01					
Check by: Date		2015-09-15					
SCALE		SHEET		OF			

KLS ELECTRONIC CO., LTD.

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