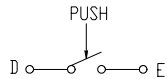
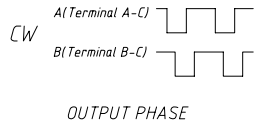


**Electrical Characteristics**  
 Rated Power: DC5V 5mA Max.  
 Output signal: A \ B 2signals  
 Resolution: 12 Pulses 360° / 24 Pulses 360°  
 Phase difference: 0.08T Min.  
 Sliding noise: 3mS Max.  
 Contact Resistance: 1Ω Max.  
 Insulation resistance: 100MΩ Min. at DC 250V  
 Withstand voltage: 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°±2°  
 24 detents Step angle: 15°±2°  
 Without detents  
 Rotational Life: 30000±200 cycles per 100gf.cm Min.  
 Temp. Range: -30 °C ~ +85 °C  
 Soldering: 250 °C 5Sec. Max.



**Order Information:**

L-KLS4-EC1204 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:

<input checked="" type="checkbox"/>	B	C
D	5	7
K	2.5	2
S	2.6	2.1

RoHS

12mm Encoder

Switch: S- with switch

**PCB LAYOUT**

**Shaft type**

		D=5					D=7					
		L	11	11.5	12	13.5	14	15	17	20	20	30
F Shaft	F	5	5	5	7	6	7	7	7	6.5	10	12

**T Shaft**

		D=5					D=7				
		L	11.5	12.5	15	20	15.3	20	25	28	30
T Shaft	F	5	5	7	7	7	7	14	12	12	

<b>GENERAL TOLERANCE</b>	<b>ANGLE TOLERANCE</b>	<b>PROJECTION</b>		<b>Description:</b>
.X ±0.50	.X ±5°	UNITS	mm	12MM Encoder Metal shaft with Switch
.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.