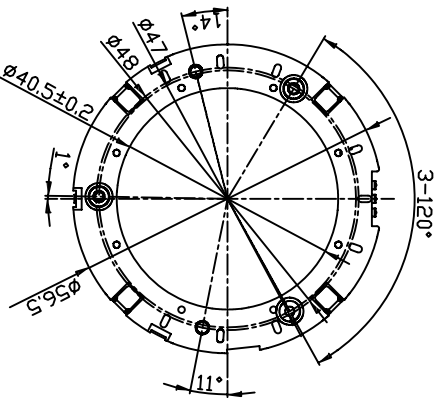
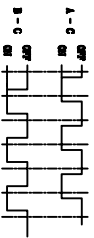


**PCB LAYOUT**

OUTPUT SIGNAL  
(CW ROTATION)



GENERAL TOLERANCE		ANGLE TOLERANCE		PROJECTION		Description:	
X. ±0.50	.X ±0.38	.XX ±0.25	X. ±5°	.X ±3°	.XX ±2°		UNITS
			mm		A4		
			SHEET SIZE		KLS P/N:		
			KLS P/N:		KLS4-RT5602		
Draw by: Date				2015-09-01			
Check by: Date				2015-09-15			
SCALE		SHEET		OF			
KLS ELECTRONIC CO., LTD.							

- Electrical Characteristics**
- Rated Power: DC5V 10mA Max.
  - Output signal: A \ B 2 signals
  - Resolution: 15 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 / 1min
- Mechanical**
- Total rotation angle: 360°
  - Detent Torque: 150±50gf.cm
  - Push-pull Strength of Shaft: 8.0kgf Min.
  - Number of Detents(Click): 30 detents Step angle:12°±2°
  - Shaft play in axial direction: 0.3mm Max.
  - shaft play in rotational wobble: 2° Max.
  - Rotational Life: 30000±200 cycles
  - Temp. Range: -40 ° C ~ + 85 ° C
  - Soldering: 250 ° C Ssec. Max.