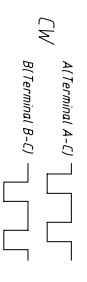


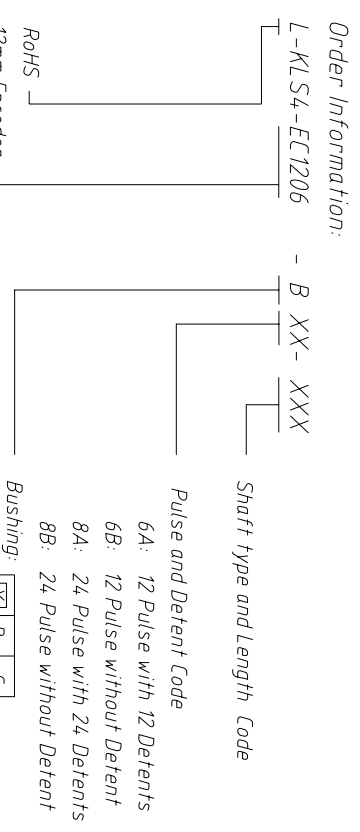
Electrical Characteristics
 Rated Power: DC5V 5mA Max.
 Output signal: A \ B 2signals
 Resolution: 12 Pulses 360° / 24 Pulses 360°
 Phase difference: 0.08T Min.
 Sliding noise: 3mS Max.
 Contact Resistance: 1 Ω Max.
 Insulation resistance: 100M Ω Min. at DC 250V
 Withstand voltage: AC300V / 1 min

Mechanical
 Total rotation angle: 360°
 Rotational Torque: 1kgf.cm Max
 Click Torque: 20 ~150 gf.cm
 Push-pull Strength of Shaft: 80kgf 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.

OUTPUT PHASE



PCB LAYOUT



Shaft type	D=5						D=7					
	L	9.5	13	15	17.5	20	L	4.5	5	7	5	7
F Shaft	L	9.5	13	15	17.5	20	L	4.5	5	7	5	7

Shaft type	D=5						D=7					
	L	11	15	15	20	15.3	L	11	15	15	20	17.5
T Shaft	L	11	15	15	20	15.3	L	11	15	15	20	17.5

Shaft type	D=5					
	L	15	17.5	20	22.5	25
N Shaft	L	15	17.5	20	22.5	25

GENERAL TOLERANCE

X. ±0.50
 .X ±0.38
 .XX ±0.25

ANGLE TOLERANCE

X. ±5°
 .X ±3°
 .XX ±2°

PROJECTION

UNITS: mm
 SHEET SIZE: A4
 KLS P/N: KLS4-EC1206-BXX-XXX

Description:

12MM Encoder Metal shaft

KLS ELECTRONIC CO., LTD.

Draw by: Date 2015-09-01
 Check by: Date 2015-09-15
 SCALE SHEET OF