

**Connections**

Number	Functions
5*	5V +5V Powersupply
4	B B Phase output
3*	5V +5V Powersupply
2	A A Phase output
1	0V 0V Common Return
G	Frame Ground/Earth

\*Please connect terminals 3 and 5 to 5V power supply.

**SPECIFICATIONS**

**ELECTRICAL**

- Input Power: 5.0 VDC ±10% @ 20mA
- Output Voltage: H = Vcc- 0.5V  
L ≤ 0.4V
- Resolution: 25/50 PPR
- Output Type: TTL Compatible
- Max. Freq. Response: 500 Hz

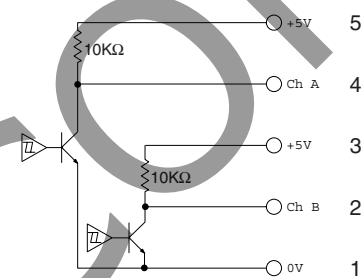
**MECHANICAL**

- Max Shaft Load, radial: 5.0 kgf  
axial: 5.0 kgf
- Rotational Angle: 360° continuous
- Click Torque: 30~70 gf•cm
- Rotational Life: 1,000,000 cycles

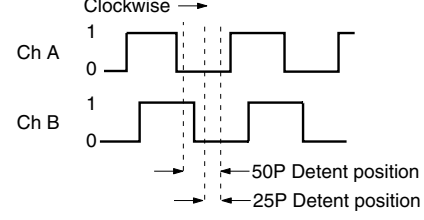
**ENVIRONMENTAL**

- Operating Temp: 0° to +70° C
- Storage Temp: -20° to +80° C
- Humidity: ≤85% RH, no condensation
- Vibration: 10~55 Hz, 1.5 mm, 2 hrs
- Shock: 50G, 6ms, 3 axes, 3 reps

**OUTPUT CIRCUIT**



**OUTPUT WAVEFORM**



**ORDERING INSTRUCTIONS**

**RE19**           **R**

N = Not waterproof  
P = Waterproof

Body Type:  
C = Cable type  
F = Front mounting  
H = Horizontal  
V = Vertical

Shaft Length:  
16 = 16mm  
20 = 20mm  
28 = 28mm

Detent:  
C = Click  
Blank = No Click

Resolution:  
25 = 25 Cycles  
50 = 50 Cycles

Output:  
O = Open Collector  
R = pull up 4.7 kΩ

CUI Devices  
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DRAWN BY	UPDATED	CHECKED	RELEASED
JRH	09/01/20	09/01/20	
PART NO.			REV.
<b>RE19XXXXXXXXRX</b>			