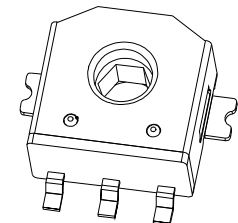
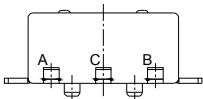
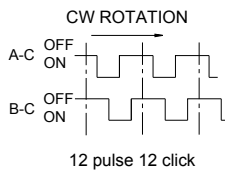
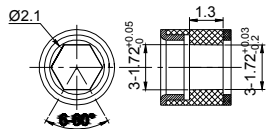


Circuit Board Welding Diagram

Shaft hole Diagram



Material list

Items	Name	Material
1	Cover	Copper Alloy
2	Wheel gear	Engineering plastics
3	Base	Engineering plastics
4	Contact Spring	Copper Alloy
5	Terminal	Copper Alloy

No	Items	Standard	No	Items	Standard
1(1.2)	Operating Temperature Range	-40°C to +85°C	19(7.1)	Mechanical Life	100,000 cycles(30 t/min,Torque attenuation<30%)
2(1.3)	Operating Relative Humidity	≤85% RH	20(7.2)	Electronics Life	
3(3)	Ratings	DC 5V 0.5mA	21(8.1)	Cold Proof	-40±2°C 96h
4(4.1)	Contact Resistance	200mΩ Max(Initial status)	22(8.2)	Hot Proof	85±2°C 96h
5(4.2)	Insulation Resistance	50MΩ Min	23(8.3)	Moisture Resistance	40±2°C 96h, 90-95%RH 96h
6(4.3)	Dielectric Voltage	AC50V,60s	24(8.4)	Temperature Cycling	-40~85°C, change 5 cycles
7(4.4)	Output Signal Format	C.W. 12pulse/360°,A(A-C),B(B-C)	25(8.5)	Salt Mist	5% NaCl 24h(Cut Surface Exemption)
		C.C.W 12pulse/360°,B(B-C),A(A-C)	26(8.6)	Vulcanization test	5% Na2S 3 minutes(Cut Surface Exemption)
8(4.4)	Phase-Different	T1,T2,T3,T4±3mS			
9(4.5)	Chattering	H1,I3±3mS	1	Solder Foot Width	7.6±0.2
10(4.5)	Bounce	t2±2mS	2	Top height	2.5±0.1
11(5.1)	Detent Points	12detent points,each angle:30°±3°	3	Tip dimensions of pin foot	4.4±0.2
12(5.3)	Rotational Force	5±5gf.cm(initial status)	4	Width of Pin	3-0.6±0.1
13(5.4)	Tooth Intensity Value	/	5	Body thickness	2.7±0.2
14(5.4)	Tooth Sense Consistency	/	6	Flatness	0 <sup>+0.05</sup> <sub>-0.05</sub>
15(5.5)	Axial Swing Strength	1N,60S	7	Square Hole Size	1.73 <sup>+0.05</sup> <sub>0</sub>
16(5.6)	Terminal Strength	1N,60S	8	Distance of column	2.4±0.1
17(6.2)	Solder Heat Resistance	SMT Soldering 250°C Max 3S Max, 230°C Min 40S Max	9	Distance of column	3.9±0.1
		Manual Soldering 350°C Max, 3S Max	10	Distance of hole to column	2.7±0.1
18(6.1)	Solder Ability	250°C Max, 3S Max	11	Column Size	0.6 <sup>+0.05</sup> <sub>0</sub>

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b-Switch

## G-Switch Electronic (HongKong) CO.,Ltd.

Unless otherwise specified, Tolerance: X. ±0.30 X.x ±0.20 X.xx ±0.15 X.xxx ±0.10 Angles ±3°	DESIGN Yvette Chen	DATE 2020.10.20	Molde code:	
	CHECKED	DATE	E6E8-2.7C5-12W15 无齿感	
APPROVED	DATE	REV.: X1		
	<a href="http://www.dg-switch.com">http://www.dg-switch.com</a>		SIZE: A4	SHEET: 1/1
	TEL:0769-82388879			