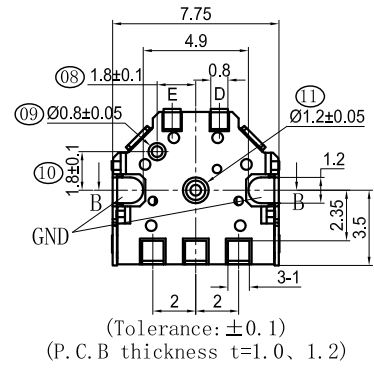
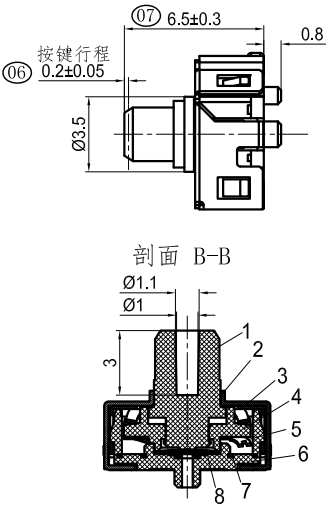
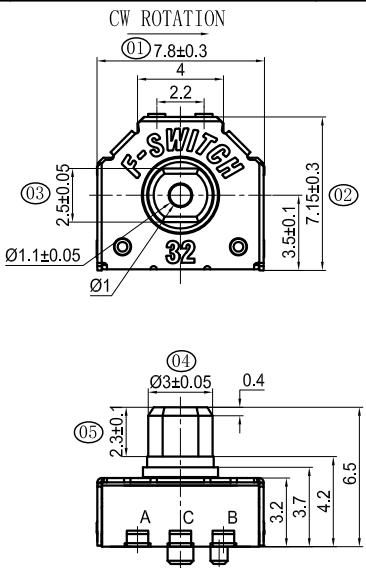




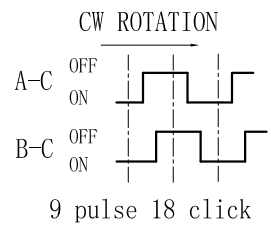
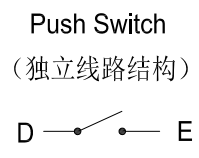
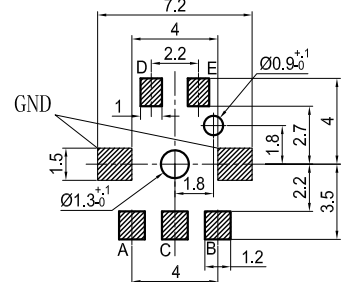
F-SWITCH ELECTRONICS CO.,LTD.

名称 TITLE	ENCODER	料号 PART NO.	E8H6-6. 5J30-9B15-F200	图号 DRAWING NO.	FSE8-WI-DR-039
规格 SPEC	卧式SMT内贴型, 7.8×3.8mm编码器, 安装高度6.5mm, 轴径3.0mm(黑色), 扭力30gf, 开关按力200gf, 9脉冲无定位, 寿命10万次.				

No.	Items	Standard	No.	Items	Standard
1(1.2)	Operating Temperature Range	-40℃ to +85℃	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	100,000 cycles(30 t/min, Torque attenuation <30%)
3(3)	Ratings	DC 5V 0.5mA	19(7.3)	Switch Mechanical Life	100,000 cycles(60 t/min, Torque attenuation <30%)
4(4.1)	Contact Resistance	200mΩ Max(Initial status)	20(7.2)	Switch Electronics Life	100,000 cycles(60 t/min, Torque attenuation <30%)
5(4.2)	Insulation Resistance	50MΩ Min.	21(8.1)	Cold Proof	-40±2℃ 96h
6(4.3)	Dielectric Voltage	AC50V · 60s	22(8.2)	Hot Proof	85±2℃ 96h
7(4.4)	Output signal format	C,W, 9pulse/360°,A(A~C),B(B~C)	23(8.3)	Moisture Resistance	40±2℃ · 90-95%RH 96h
(5.2)		C.C.W, 9pulse/360°,B(B~C),A(A~C)	24(8.4)	Temperature Cycling	-40~85℃ · change 5 cycles
8(4.4)	Phase-different	T1,T2,T3,T4 ≥ 4mS	25(8.5)	Salt Mist	5% Nacl 24h
9(4.5)	Chattering	t1,t3 ≤ 3mS	26(8.6)	Vulcanization test	3% Na2s 3 minutes
10(4.5)	Bounce	t2 ≤ 2mS	Dimensions:		
11(5.1)	Detent points	18detent points,each angle:20°±3°	1	7.8±0.3mm	
12(5.3)	Rotational force	30±10gf.cm MAX(Initial status)	2	7.15±0.3mm	
12(5.3)	Push force	200±50gf (Initial status)	3	2.5±0.05mm	
12(5.3)	Restoring force	30gf (Initial status)	4	∅3.0±0.05mm	
13(5.4)	Tooth Intensity Value	\	5	2.3±0.1mm	
14(5.4)	Tooth sense consistency	\	6	0.2±0.05mm	
15(5.5)	Axial Swing Strength	100gf, 60S, Axial Swing <0.5mm	7	6.5±0.3mm	
16(5.6)	Terminal Strength	3N, 10S.	8	1.8±0.1mm	
17(6.2)	Solder Heat Resistance	SMT Soldering 255℃ Max 3S Max, 230℃ Min 30S Max	9	0.8±0.05mm	
		Manual Soldering 350℃ Max, 3s Max	10	1.8±0.1mm	
18(6.1)	Solder Ability	255℃ Max, 3S Min	11	1.2±0.05mm	



(Tolerance: ±0.1)
(P.C.B thickness t=1.0, 1.2)



1. 材质清单 Material list

项目 ITEM	名称 Name	材质 MATERIAL
1	转轴 Shaft	工程塑料(LCP 黑色)
2	盖片 Cover	铜合金 Copper alloy
3	定位片 Anchor Plate	不锈钢 Stainless Steel Strips
4	齿轮 Wheel gear	工程塑料(PA46)
5	接触片 Contact Spring	磷铜合金 Copper alloy
6	底座 Base	工程塑料(PA46)棕色
7	端子 Terminal	磷铜合金 Copper alloy
8	弹片 Spring	不锈钢 Stainless Steel Strips

VER.	内容 S.U.B.	修改 MODIFY	日期 DATE	公差 TOLERANCE	单位 UNIT	张数 SHEET	图幅 SIZE	图类 TYPE
10				L<5 ±0.2	mm	1/1	A4	成品图
				L<10 ±0.3	版本 REV.	设计 DSGD.	审核 CHKD.	核准 APPD.
				L<30 ±0.5	AI			
				.X° ±2° X.° ±5°	比例 SCALE			
				角法 PROJ.	5:1			