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# **KINGHOR SWITCH**

#### PRODUCT SPECIFICATION 产品规格书

	MINGITO	IX SWITCH	1 KOI	DOCT STECTIFICAT	10N ) HH				
	文件编号 F	ILE NO.	H3-D7-1C00W1-2-200-T0	070 文件版次	EDITION	A1			
	产品编码 PA	ART NO.	H3-D7-1C00W1-2-200-T0	070					
	产品描述 Pa	roduct Name	Micro Switch						
1	General Chara	acteristics 一般特性:							
1. 1	Application: This specification is applied to the micro switch (H3) for general applications.								
	适用范围:该承	x认书指微动开关(H3)的	一般使用范围。						
1.2	Operating Tempe	erature Range: -25℃to +8	5℃						
	使用温度范围: -25℃to +85℃								
	Preservative Te	emperature Range: -25℃to	) +85℃						
	保存温度范围:	-25℃to +	85℃						
1. 3	Operating Relative Humidity: ≤85%RH								
	相对湿度: ≤85%RH								
1.4	Test Conditions:	Test Conditions: Unless otherwise specified, the atmospheric conditions for making measurements and tests are as follows:							
	实验条件: 若没有特别说明,则试验大气条件如下:								
	Ambient Temperature: 5~35℃								
	环境温度:	环境温度: 5~35℃							
	Relative Humidity: 45~85%								
	相对湿度:	45~85%							
	Air Pressure:	86~106Kpa	(860~1060mbar)						
	大气压力:	86~106Kr	oa (860~1060mbar)						
2.	Appearance, S	Structure and Dimension	 ns 外观,结构及尺寸:						
2. 1	Appearance:	The switch shall have go	ood finishing, and no rust, crac	k or plating defects.					
	外观:	产品外观良好,无针	秀蚀、裂纹和镀层缺陷。						
2. 2	Structure & Dimensions: Refer to individual product drawing.								
	结构及尺寸: 参见产品图纸								
2. 3	Markings: Refer to individual product drawing.								
	标识:	标识: 参见产品图纸。							
		CERTIFICATION	RATING	LIFE CYCLES	FILE 1	NO.			
3.	Ratings 额定负荷		0. 1A 125/250VAC; 3A 12VDC	100, 000					

#### 4. Electrical Characteristics 电气特性

No.	Item 项目	Criteria 标准	Test Method 实验方法
4 1	Insulation Resistance	100 MΩ min.	100VDC voltage is applied between each pair of terminals and between the terminal and the metal frame for $60\pm5\mathrm{S}.$
4. 1	绝缘电阻	100 MΩ min.	在相互绝缘的所有端子之间及各接线端子与外露的非载流金属零件之间加载100V直流电,持续时间60±5S。

0.1A 48VDC u 25T85

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	文件编号 F]	ILE NO.	H3-D7-	1C00W1-2-200-T070	文件版次	EDITION	A1		
	产品编码 PA	ART NO.	H3-D7-1C00W1-2-200-T070						
	产品描述 Pı	roduct Name	Micro	Switch					
4. 2	Dielectric No dielectric breakdown occur.		n shall	1000VAC ( $50^60$ Hz, cut - off current 10mA) is applied between non-connected terminals and 1000VAC between terminals and the metal frame for $60 \pm 5$ s.					
4. 2	抗电强度	无击穿现象发生。		在相互绝缘的所有接线端子之间1000V(50-60Hz)交流电,各接线端子与外壳或非载流金属零件之间加载1000V(50-60Hz)交流电,持续时间60±5S。					
5. Me	chanical Charac	teristics 机械特性							
No.	Item 项目	Criteria 标准		Test Met	hod 实验方	法			
5. 1	Operating Force	See product drawing		Apply a tension load on the midpoint of the actuator (or 1mm to the tip of the shaft) to supply a pressure vertically from its free position to operating position.					
	操作力	参见产品图纸		在操作元件中间(或在离操作元件末端1mm处)沿操作方向均匀 施加静载荷,使操作元件转换到动作位置。					
5. 2	Releasing Force	See product drawing		A static load shall be reduced to the tip of actuator in operating direction to change component from operating position to release position.					
0. 2	回复力	参见产品图纸		在操作元件末端沿操作方向均刀减少静载荷,使操作元件从对作位置转换到释放位置。					
5. 3	Free position	See product drawing		The position where the actuator lead the Displacement when its out of force or the force is not enough to drive the actuator.					
o. o	自由位置	参见产品图纸		驱动件在不承受操作力以及不足以引起位移时所处的位置					
5. 4	Operating Position	See product drawing		The distance from the end of operating component to the center of mount hole when switch is being transformed					
	操作位置	参见产品图纸		开关发生转换时,操作元件对	<b></b> 末端到开关安	装孔中心的距	拒离		
5. 5	Pre Travels	See product drawing		The distance vertically through, which the mathematical through the actuator (or tip of the shaft) trip move free position to operating position.					
	行程	参见产品图纸		从自由位置到动作位置的距离。					
	Differential Travel	See product drawing		The distance from operating position to release position					
5. 6	差程	参见产品图纸		从动作位置到释放位置的距离。					
5.7	Over travel	See product drawing		The displacements of actuator form operation to to travel position.					
5. 7	超行程	参见产品图纸		驱动件从动作位置到全行程位置间的位移 .					

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		DR SWITCH FILE NO.	H3_D7.	1C00W1-2-200-T070	PECIFICATION 产品规格中 文件版次 EDITION A1				
-		PART NO.		1C00W1-2-200-T070	XIT/IXIX LDITION AT				
		Product Name	Micro						
	rability char		1.1	<u> </u>					
No.	Item 项目	Criteria 标准		Test N	Method 实验方法				
1101	100m //	оттостью ручны		1000	NO. 100 100 100 100 100 100 100 100 100 10				
6. 1	Mechanical Life				0,000 cycles of operation shall be performed ntinuously at a rate of 60 cycles per minute witho ad.				
	机械寿命	实验后: 绝缘电阻: 50MΩ min. 电气性能应符合第4.2条的要求。 开关外观及结构应无损坏。 操作力变化为初始值的 ±30%。		在不带负荷的条件下,速,续转换500,000次。	负荷的条件下,速度为60次/分,在寿命试验设备上运 500, 000次。				
6. 2	Operating Life with Load	After test, Insulation resistance: min. The electrical perform requirements specified item 4.2 shall be sati The switch shall be fr abnormalities in appea construction. Operating force: withis initialization value.	ance in sfied. ee from rance	performed continuous minute with load as	00 cycles of oper a shall be sly at a rate of 30 cycles per s follow: Refer to individual wing (Resistive Load)				
	负荷寿命	实验后: 绝缘电阻: 10MΩ min. 电气性能应符合第4.2条的 开关外观及结构应无损坏。 操作力变化为初始值的 ±	0		A图纸标示负荷的下,在寿命试验设备上 5换100,000次,30次/分。				
7. Wea	ather Proof (	Characteristics 耐候性能	:						
7. 1	Cold Proof			shall be allowed to st humidity conditions fo	± 2°C for 96 hours, the switch and under normal temperature and 1 hour, and measurement shall after that. Water drops shall be				
	低温				内保持96小时,然后在正常温度和遏 51小时内对试品进行测量,水滴应消				

# **KINGHOR SWITCH**

## PRODUCT SPECIFICATION 产品规格书

	文件编号 FI	ILE NO.	H3-D7-1	1C00W1-2-200-T070	文件版次	EDITION	A1		
j	产品编码 PA	ART NO.	H3-D7-1C00W1-2-200-T070						
	产品描述 Pr	coduct Name	Micro S	cro Switch					
7. 2	Hot Proof	After test, Insulation resistance:50MΩ Min.  The Electrical performance requirements specified in item 4.2 shall be satisfied. The switch shall be free from abnormalities in appearance &construction.		After testing at $85\pm~2^\circ$ C for 96 hours, the switch shall be allowed to stand under normal temperature and humidity conditions for 1 hour, and measurement shall be made within 1 hour after that.					
	高温			试件在85±2℃的温控箱内保持96小时,然后在正常温度和湿度下恢复1小时,并在此后1小时内对试品进行测量,水滴应消失。					
	Moisture Resistance			After testing at $60\pm~2^{\circ}$ C ,90~95% RH for 96 hours, the switch shall be allowed to stand under normal temperature and humidity conditions for 1 hour, and measurement shall be made within 1 hour after that. Water drops shall be eliminated.					
	恒定湿热	实验后: 绝缘电阻: 50MΩ Min. 电气性能应符合第4.2条的 开关外观及结构应无损坏。	J要求。	试件在60±2℃,90-95%RH的温控箱内保持96小时,然后在正常温度和湿度下恢复1小时,并在此后1小时内对试品进行测量,水滴应消失。					
	Temperature Cycling	)		After 4 cycles of followi stay under normal tempera for 2 hours, and measurem hour after that. Water dr	ture and hu	umidity cond be made with	ditions nin 1		
7.4				试件按下述实验条件试验 4个 下恢复 2小时,并在此后 1小 失。					
7.4	温度转换			+85°C  -25°C  -25°C  -25°C  -25°C  -25°C					

#### 8. Material List 材料清单

No. 序号	零部件名称 Parts Name	数量 Quantity	材料,规格 Material and Specifications	防火等级 Prevent fire grade	备注 Remarks
1	防水壳 Cover	1	PA		
2	外壳 Base	1	PA		
3	按钮 Actuating button	1	POM		
4	密封圈 Sealed Circle	1	Silicone Rubber		
5	COM端子 COM Terminal	1	Cu Alloy		Ag PLATED

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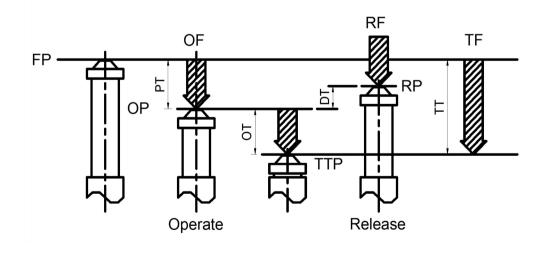
文件编号 FILE NO.			Н3-D7-1С00W1-2-200-Т	070	文件版次	EDITION	A1	
Ī	产品编码 PART NO.		H3-D7-1C00W1-2-200-T070					
产品描述 Product Name			Micro Switch					
6	弹簧 Spring	1	SWP					
7	动片 Moving Blade	1	Cu Alloy			Ag PLATED		
8	动片触点 MB Contact	1	Ag Alloy					
9	NC端子 NC Terminal	1	Cu Alloy			Ag PLATED		
10	NC端子触点 NC Contact	1	Ag Alloy					
11	NO端子 NO Terminal	1	Cu Alloy			Cut the ter	rminal	
12	密封胶水 Sealed Glue	0.01g	Silicone Rubber					
13	防水壳胶水 Waterproof Shell Glue	0.5g	Epoxy Resin					
14	PCB组件 PCB Subassembly	1	Resistance			220欧,3300	)欧	
15	电线 Electric Wire	2	UL1007, 22AWG					

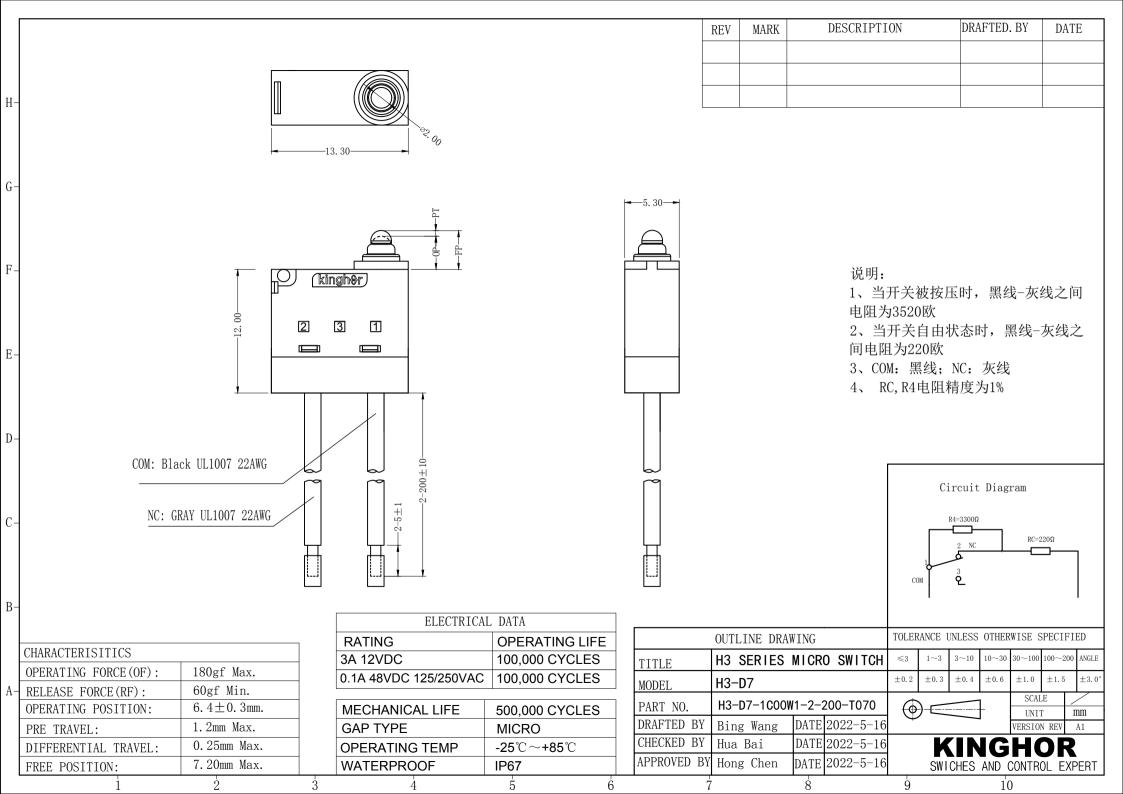
#### 9. Operating data diagram 操作参数示意图

OF :Operating Force OP : Operating Position TT :Total Travel RF :Release Force TTP: Total Travel Position TF :Total travel Force RP :Release Position FP : Free Position PT :Pre Travel

OT: Over Travel

DT: Differential Travel





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