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Reference No.	

承 认 书 Specifications For Approval

Customer		Part No.:	
Gangyuan Model	G15	Gangyuan Part No.	G15-03N-23

Approved by Gangyuan				
Approved by	Checked by		Prepared by	
Approved by Customer				
Research & Deve	lopment b	Qua	lity Assurance	

Remark:

1:This product specification is considered as the technical agreement between the receiving customer and Gangyuan, Any information on the general product catalogue which is in conflict with or differentform from the corresponding information of this document is considered as invalid.

2:If customer issue purchase orders without confirmation by signature of this specification after receipt, such confirmation will be considered as granted upon receipt of the first purchase order.

客	户	签	署	(盖章)
Sing fo	r cu	stom	er aj	proved

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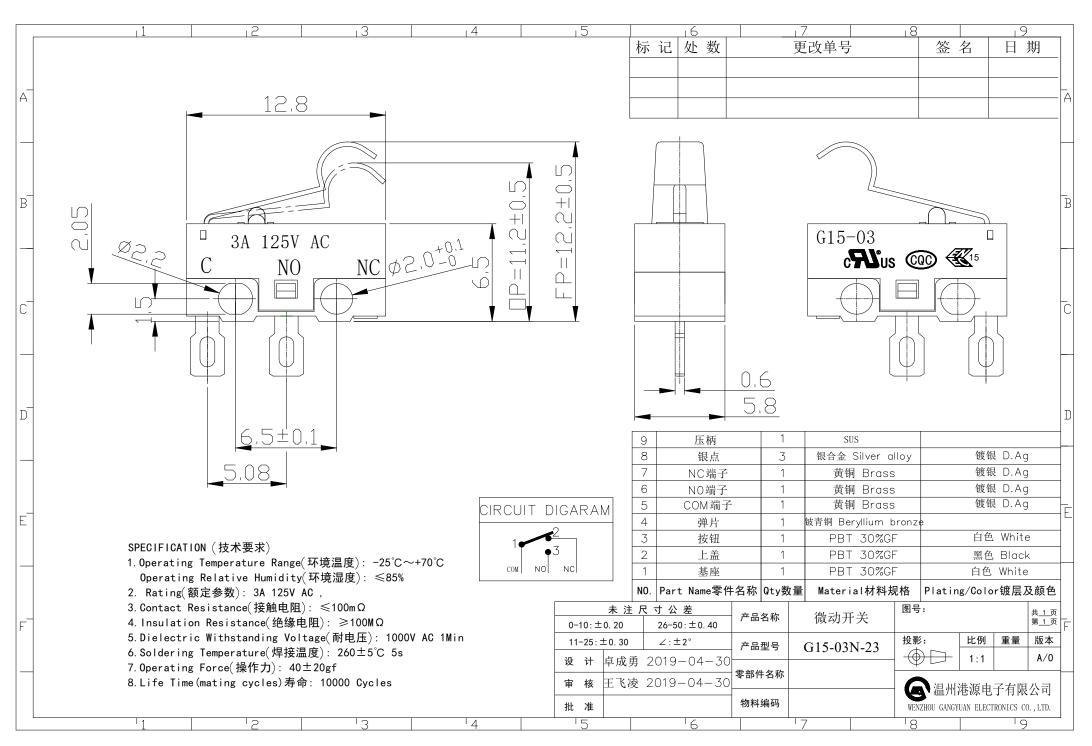
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Wenzhou Gangyuan Electronic Co.,Ltd		文件编号	GY15-008
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PRODUCT	「SPECIFICATION 产品规格书	文件版次	第 A 版 第 0 次修订
SERIES 系列	MICRO SWITCH 微动开关	页 码	共8页 第1页

变 更 履 历 表

REV	变更内容描述 DECSRIPTION	修订日期 DATE	生效日期 DATE	变更人 NAME



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1. General Characteristics 一般特性:

1.1 Application: This specification is applied to the micro switch (G10 series) for general applications.

适用范围:该承认书微动开关(G10系列)的一般使用范围。

1.4 Operating Temperature Range: -25℃to +70℃ 使用温度范围: -25℃to +70℃

1.5 Operating Relative Humidity: ≤85% at

相对湿度: ≤85% at

1.6 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: 5~35℃ Relative Humidity: 45~85% 相对湿度: 45~85%

Air Pressure:86~106Kpa (860~106mbar)大气压力:86~106Kpa (860~106mbar)

2. Appearance, Structure and Dimensions 外观,结构及尺寸:

2.1 Appearance: The switch shall have good finishing, and no rust, crack or plating defects.

外观: 产品外观良好,无锈蚀、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: 参见产品图纸。

3. Ratings 额定负荷 | 3A/125VAC

4. Electrical Characteristics 电气特性

No.	Item 项目	Criteria 标准	Test Method 实验方法
4.1	Contact Resistance 接触电阻 (初始值)	100mΩ Max.	Measured by a voltage drop method at 1A Max, 5VDC. Any equipment with error not more than 5% can be used. Resistance after test is the average of 5 successive measurements. 以 1A, 5V 直流电,采用电压降法测量。也可用误差不超过 5%的仪表进行测量,实验后的电阻取 5 次测量的平均值。
4.2	Insulation Resistance 绝缘电阻	100M Ω Min.	500VDC voltage is applied between each pair of terminals and between the terminal and the metal frame for 60±5S. 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 500V 直流电,持续时间 60±5S。
4.3	Dielectric withstand in voltage 耐压强度	No dielectric breakdown shall occur. 无击穿现象发生。	500VAC (50~60Hz,cut -off current 10mA) is applied between non-connected terminals and between terminals and the metal frame for 60 ±5s. 在相互绝缘的所有接线端子之间 500V(50-60Hz 电流为10mA)交流电,各接线端子与外壳或非载流金属零件之间加载 500V(50-60Hz)交流电,持续时间 60±5S。

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5. M e	chanical Ch	aracteristics 机械特性		
No.	Item 项目	Criteria 标准	Test	Method 实验方法
5.1	Operating Force 操作力	40±20gf	Apply a tension meter on the midpoint of the actuator (or tip of the shaft) to supply pressure vertically from its free position operating position. 在操作元件末端沿操作方向均匀施加静载荷,位操作元件转换到动作位置。	
5.2	Return Force 回弹力	10gf Min	midpoint (or tip o allow the contact 在操作元件末端》	hich the force in the actuator of the shaft) must be reduced to to the normal position. 公置转换到自由位置。
5.3	Operation Position 操作位置	11.2±0.5mm	Position of switch plunge or actuator at which po contacts snap from normal to operated position Note that the case of flexible of adjustal actuators. 开关操动件受到外力后,由自由状态切换到动状态的动作位置。(注意防止盖片变形或按钮斜现象。)	
5.4	Pre Travels 行程	1.5mm Max	midpoint of the a	vertically through, which the actuator (or tip of the shaft) trip free position to operating 作位置的距离。
5.5	Terminal Strength 接线端强 度	Shall be free from terminal looseness, damage and insulator breakage. No functional defective occur 端子无松动,损坏及绝缘层的破裂。无功能性不良	terminal in a de The test shall be 以 25N 作用力沿	5N shall be applied to the tip of sired direction for 10 ± 1s. done once per terminal. 轴向逐渐施加于接线端末端,作开关向外指向,每个接线端子测
5.6	Vibration Proof 振动	After test, Contact resistance: $500m\Omega$ Max. Insulation resistance: $100M\Omega$ Min. No functional defective occur No abnormalities shall be recognized in appearance and construction. 实验后:接触电阻: $500m\Omega$ Max. 绝缘电阻: $100M\Omega$ Min. 无功能性不良。表面及结构无明显变形。	a normal mounti shall be measure (1) Vibration freq (2) Total amplitud (3) Sweep ratio: (4) Method of confrequency: I (5) Direction of directions ince (6) Duration: 2 ho	10~55~10Hz Approx. 1 min changing the sweep vibration logarithmic or linear vibration: Three perpendicular luding actuating direction. ours (6 hours in total) 安装方法牢固地安装在试验设参数条件下进行试验: z

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No.	Item 项目	Criteria 标准	Test Method 实验方法
5.7	Mechanic al Shock 冲击	After test, Contact resistance:500m Ω Max. Insulation resistance:100M Ω Min. No functional defective occur No abnormalities shall be recognized in appearance and construction. 实验后: 接触电阻: 500m Ω Max. 绝缘电阻: 100M Ω Min. 无功能性不良。 表面及结构无明显变形。	(5)Number of shocks: 3 times per direction (18 times in total) 试件在下述参数条件下进行试验: (2) 安装方法: 常规方法 (2) 加速度: 490m/ s² (50G) (3) 时间: 11ms (4) 实验方向: 图示 6 方向
5.8	Solder Heat Resistanc e 耐焊接热	No abnormalities shall be observed in appearance and operation. No functional defective occur 无外观及功能损坏。 无功能性不良。	(5) 冲击次数:每个方向 3 次(总共 18 次) Switch shall be measured after following test: (1) Solder: H63A (JIS Z3282) (2) Flux: Rosin Flux having a nominal composition of 25% solids by mass of water white rosin in methyl alcohol (JIS K 1501) solution. (3) Soldering Temperature & Immersing Time Dip Soldering 260±5°C 5±1s Manual Soldering 300±5°C 2~3s (4)Immersion Depth: (For Dip Soldering) Immersion depth shall be at copper plating portion of PCB after mounting. (Thickness of PCB=1.6mm) 试件在下述参数条件下进行试验: (1) 焊料: H63A (JIS Z 3282) (2) 焊剂: 焊剂,质量百分比为 25%松香,75% 甲醇的无色透明溶液。 (3) 焊接温度及浸渍时间: 自动焊接 260±5℃ 5±1s 手工焊接 300±5℃ 2~3s (3) 浸渍深度: (对于手动焊接) 接线端应浸到离开关根部 1.6mm 处。

Wanzhou Gangyuan Elastronia Ca I td		文件编号	GY15-008	
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	1	acteristics 耐久性能		
No.	Item 项目	Criteria 标准	Test Me	ethod 实验方法
6.1	Mechanic al Life 机械寿命	After test, Contact resistance: 2Ω Max. Insulation resistance: $10M\Omega$ Min. No functional defective occur The switch shall be free from	per minute withou	uously at a rate of 60 cycle t load. 下,速度为 60 次/分,在寿命
6.2	The switch shall be free from abnormalities in appearance construction. 实验后: 接触电阻: 2Ω Max. 绝缘电阻: 10MΩ Min. 无功能性不良。 开关外观及结构应无损坏。		rate of 10-30 cycle follow	
7. W e	ather Proof	Characteristics 耐候性能:		
7.1	Cold Proof 低温	After test,	switch shall be al temperature and h and measuremen after that. Water d 试件在-25±2℃的	25 ± 2° C for 48 hours, the lowed to stand under normed numidity conditions for 1 hours to shall be made within 1 hours shall be eliminated. 日温控箱内保持 48 小时,然是下恢复 1 小时,并在此后 1 点量,水滴应消失。
7.2	Hot Proof 高温	Contact resistance: $1000m\Omega$ Max. Insulation resistance: $50M\Omega$ Min. No functional defective occur. The switch shall be free from abnormalities in appearance & construction. 实验后:	After testing at 70 switch shall be all temperature and hand measurement after that. 试件在 70±2°	0 ± 2° C for 48 hours, thowed to stand under norm numidity conditions for 1 houtshall be made within
7.3	Moisture Resistanc e 恒定湿热	接触电阻: 1000mΩ Max. 绝缘电阻: 50MΩ Min. 无功能性不良。 开关外观及结构应无损坏。	After testing at 40 hours, the switch under normal conditions for 1 h be made within 1 shall be eliminated 试件在 40±2℃,9 小时,然后在正常	$0\pm~2^\circ$ C ,90~95% RH for 9 n shall be allowed to star temperature and humidinour, and measurement shall hour after that. Water drop

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No.	Item 项目	Criteria 标准	Test Method 实验方法	
7.4	Temperature Cycling 温度转换	After test, Contact resistance: $1000m\ \Omega$ Max. Insulation resistance: $50M\ \Omega$ Min. No functional defective occur. The switch shall be free from abnormalities in appearance & construction. 实验后:接触电阻: $1000m\ \Omega$ Max. 绝缘电阻: $50M\ \Omega$ Min. 无功能性不良。 开关外观及结构应无损坏。	After 5 cycles of following conditions, 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. 试件按下述实验条件试验 5 次,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。	
7.5	Salt Mist 盐雾实验	No remarkable corrosion shall be recognized in metal part. 在金属件上没有腐蚀斑点。	The switch shall be checked after following test: (1) Temperature: 35± 2° C (2) Salt Solution: 5±1% (Solids by mass) (3) Duration: 24±1 hour After test, salt deposit shall be removed by running water. 试件在下述实验后测量: (1) 温度: 35±2℃ (2) 盐溶液浓度: 5±1% (质量百分比) (3) 时间: 24±1 小时 实验后的盐沉积物用水冲掉。	

单击下面可查看定价,库存,交付和生命周期等信息

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