

Total Page	8
Edition	A
Reference No.	

## 承 認 書 Specifications For Approval

Customer		Part No.:	
Gangyuan Model	G20	Gangyuan Part No.	G20-26CM-200-311

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

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	戶	簽	署	(蓋章)
Si	ng fo	r cu	stom	er ap	proved

港源簽署 (蓋章) Sing for GangYuan approved

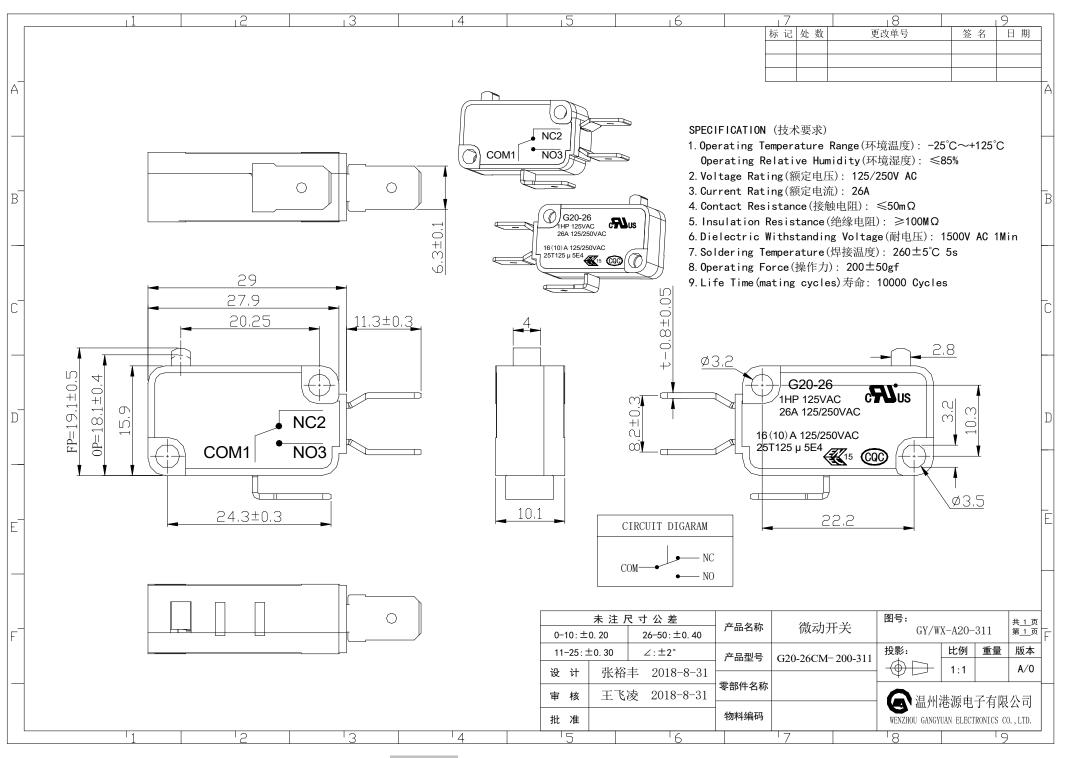
確認日期: \_\_\_\_\_\_

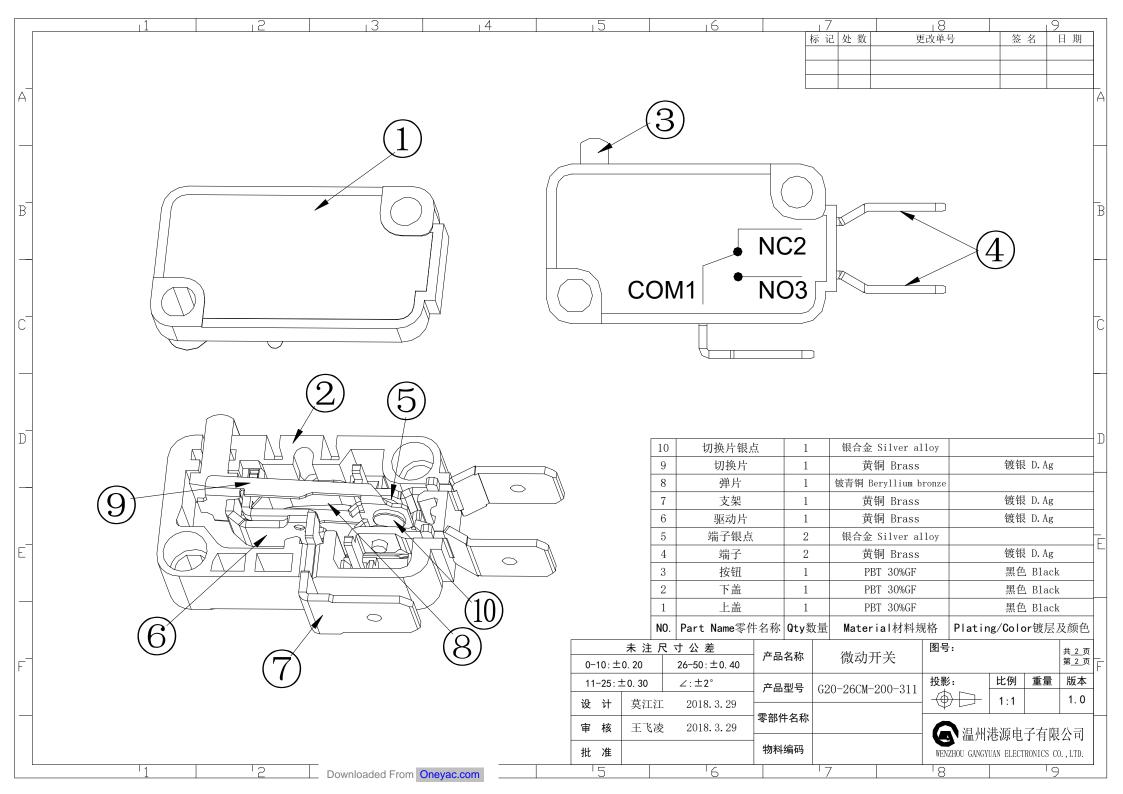
送承認日期:

CangVuan	Floatronics Co I td	檔編號	GY-002
Gangruan	Electronics Co.,Ltd	發佈日期	2018年3月30日
PRODUCT	SPECIFICATION 產品規格書	檔版次	第A版 第0次修訂
SERIES 系列	MICRO SWITCH 微動開關	頁 碼	共8頁 第1頁

# 變 更 履 曆 表

REV	變更內容描述 DECSRIPTION	修訂日期 DATE	生效日期 DATE	變更人 NAME
	字唛更新,UL 认证 Rating 26A125/250VAC	2018-7-25	2018-7-25	王飞凌
	ENEC\CQC Rating 16(10)A125/250VAC			





CangVuan	Floatronics Co I td	檔編號	GY-002
GangYuan	Electronics Co.,Ltd	發佈日期	2018年3月30日
PRODUCT	SPECIFICATION 產品規格書	檔版次	第A版 第0次修訂
SERIES 系列	MICRO SWITCH 微動開關	頁 碼	共8頁 第4頁

#### 1. General Characteristics 一般特性:

適用範圍:該承認書微動開關(G20系列)的一般使用範圍。

1.2 Operating Temperature Range: -25℃~+125℃ 使用溫度範圍: -25℃~+125℃

1.3 Operating Relative Humidity: ≤85% 相對濕度: ≤85%

Test Conditions: Unless otherwise specified, the atmospheric conditions for making measurements and

tests are as follows:

實驗條件: 若沒有特別說明,則試驗大氣條件如下:

Ambient Temperature: 5~35℃ 環境溫度: 5~35℃ Relative Humidity: 45~85% 相對濕度: 45~85%

Air Pressure: 86~106Kpa (860~106mbar) 大氣壓力: 86~106Kpa (860~106mbar)

2. Appearance, Structure and Dimensions 外觀,結構及尺寸:

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

外觀: 產品外觀良好,無銹蝕、裂紋和鍍層缺陷。

2.2 Structure & Dimensions: Refer to individual product drawing.

結構及尺寸: 參見產品圖紙

2.3 Markings: Refer to individual product drawing.

標識: 參見產品圖紙。

3. Ratings 額定負荷 | 26A 125/250VAC

#### 4. Electrical Characteristics 電氣特性

No.	Item 專案	Criteria 標準	Test Method 實驗方法
4.1	Contact Resistance 接觸電阻 (初始值)	50mΩ 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 直流電,採用電壓降法測量。也可用誤差不超過 5%的儀錄進行測量,實驗後的電阻取 5 次測量的平均值。
4.2	Insulation Resistance 絕緣電阻	100M Ω Min.	500VDC voltage is applied between each pair of terminals and between the terminal and the metal frame for 60±5S. 在相互絕緣的所有端子之間及各接線端子與外露的非載流金屬零件之間加載 500V 直流電,持續時間 60±5S。
4.3	Dielectric withstand in voltage 耐壓強度	No dielectric breakdown shall occur. 無擊穿現象發生。	1500VAC (50~60Hz,cut -off current 10mA) is applied between non-connected terminals and between terminals and the metal frame for 60 ±5s. 在相互絕緣的所有接線端子之間 1500V(50-60Hz 電流為 10mA)交流電,各接線端子與外殼或非載流金屬零件之間加載 1500V(50-60Hz)交流電,持續時間 60±5S。

	<b>T</b> 7		檔編號	GY-002
GangYuan		Electronics Co.,Ltd	發佈日期	2018年3月30日
PRODUCT SPECIFICATION 產品規格書			檔版次	第A版 第0次修訂
SEF	RIES 系列	MICRO SWITCH 微動開關	頁 碼	共8頁 第5頁
5. M e	chanical Ch	aracteristics 機械特性		
No.	Item 專案	Criteria 標準		Method 實驗方法
5.1	Operating Force 操作力	$200\pm50$ gf	actuator (or tip pressure vertica operating positio	凸操作方向均匀施加靜載荷, 使
5.2	Return Force 回彈力	50gf 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. 日操作方向均匀減少靜載荷,使立置轉換到自由位置。
5.3	Operation Position 操作位置	18.1 $\pm$ 0.4mm	contacts snap fro Note that the of actuators. 開關操動件受到外	plunge or actuator at which point im normal to operated position. case of flexible of adjustable 小力後,由自由狀態切換到動作(注意防止蓋片變形或按鈕傾
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 作位置的距離。
5.5	Terminal Strength 接線端強 度	Shall be free from terminal looseness, damage and insulator breakage. No functional defective occur 端子無鬆動,損壞及絕緣層的破裂。無功能性不良	A static load of 25N shall be applied to the	
5.6	Vibration Proof 振動	After test, Contact resistance:200m Ω Max. Insulation resistance:100M Ω Min. No functional defective occur No abnormalities shall be recognized in appearance and construction. 實驗後: 接觸電阻: 200m Ω Max. 絕緣電阻: 100M Ω Min. 無功能性不良。 表面及結構無明顯變形。	a normal mounti shall be measure (1) Vibration freq (2) Total amplitud (3) Sweep ratio: (4) Method of of frequency: I (5) Direction of directions inc (6) Duration: 2 hd 開關採用常規的備上,並在下述到 (1) 振頻=10-55H (2) 振幅 1.5mm (3) 振動變化速率 (4) 變頻方法: 對 (5) 振動方向: 三向應是促動元	10~55~10Hz Approx. 1 min changing the sweep vibration ogarithmic or linear vibration: Three perpendicular luding actuating direction. ours (6 hours in total) 安裝方法牢固地安裝在試驗設學數條件下進行試驗: z

(6) 時間:每個方向2小時(共6小時)。

Canallysan	Electronics Co I td	檔編號	GY-002
Gang Yuan	Electronics Co.,Ltd	發佈日期	2018年3月30日
PRODUC <sup>*</sup>	T SPECIFICATION 產品規格書	檔版次	第A版 第0次修訂
SERIES 系列	MICRO SWITCH 微動開關	頁 碼	共8頁 第6頁

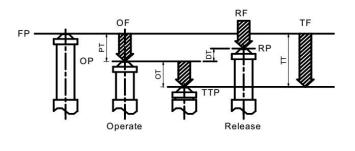
No.	Item 專案	Criteria 標準	Test Method 實驗方法
5.7	Mechanic al Shock 衝擊	After test, Contact resistance:200 Ω Max. Insulation resistance:100M Ω Min. No functional defective occur No abnormalities shall be recognized in appearance and construction. 實驗後: 接觸電阻: 200m Ω Max. 絕緣電阻: 100M Ω Min. 無功能性不良。 表面及結構無明顯變形。	Switch shall be measured after following test: (1) Mounting Method: Normal (2) Acceleration: 490m/s² (50G) (3) Duration: 11ms (4) Test Direction: 6 directions  (5) Number of shocks: 3 times per direction (18 times in total)  武件在下述參數條件下進行試驗: (1) 安裝方法: 常規方法 (2) 加速度: 490m/ s² (50G) (3) 時間: 11ms (4) 實驗方向: 圖示 6 方向 (5) 衝擊次數: 每個方向 3 次 (總共 18 次)
5.8	Solder Heat Resistanc e 耐焊接熱	No abnormalities shall be observed in appearance and operation. No functional defective occur無外觀及功能損壞。 無功能性不良。	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) 就件在下述參數條件下進行試驗:  (1) 焊料: H63A (JIS Z 3282)  (2) 焊劑: 焊劑,品質百分比為 25%松香,75% 甲醇的無色透明溶液。  (3) 焊接溫度及浸漬時間: 自動焊接 260±5℃ 5±1s 手工焊接 300±5℃ 2~3s  (4) 浸漬深度: (對於手動焊接) 接線端應浸到離開關根部 1.6mm 處。

$\mathbf{C}_{\mathbf{a}}$		Flootro	Co 143	檔編號	GY-002
Ga	ng Yuan	Electronics	Co.,Lta	發佈日期	2018年3月30日
	PRODUC	「SPECIFICATION 產品	品規格書	檔版次	第A版 第0次修訂
SEF	SERIES 系列 MICRO SWITCH 微動開關			頁 碼	共8頁 第7頁
	rability char				N 2011 N 1 N
No.	Item 專案	Criteria 標	準	Test M	Method 實驗方法
6.1	Mechanic al Life 機械壽命	Insulation resistance:10M Ω Min. No functional defective occur The switch shall be free from abnormalities in appearance construction. 實驗後: 接觸電阻: 2Ω Max. 絕緣電阻: 10M Ω Min. 無功能性不良。 開關外觀及結構應無損壞。		performed contin per minute withou 在不帶負荷的條件	es of operation shall be nuously at a rate of 60 cycles ut load. 件下,速度為 60 次/分,在壽命 專換 1,000,000 次。
6.2	Electronic ss Life 電氣壽命			operation shall be performed continuously at a rate of 6-12 cycles per minute with load as follow 在帶以下負荷的條件下,速度為 6-12 次/分,在壽命試驗設備上連續轉換。 26A 250VAC 10,000cycles(次)	
7. W e	ather Proof	Characteristics 耐候	生能:		
7.1	Cold Proof 低溫	After test,		switch shall be a temperature and and measuremen after that. Water o 試件在-25±2℃的	25 ± 2° C for 48 hours, the allowed to stand under normal humidity conditions for 1 hour, nt shall be made within 1 hour drops shall be eliminated. 的溫控箱內保持 48 小時,然後 下恢復 1 小時,並在此後 1 小測量,水滴應消失。
7.2	Hot Proof 高溫	Contact resistance: 200 Insulation resistance: $50M\Omega$ Min. No functional defective		switch shall be al temperature and and measuremer after that. 試件在 125± 然後在正常溫	25 ± 2° C for 48 hours, the llowed to stand under normal humidity conditions for 1 hour, nt shall be made within 1 hour 2°C的溫控箱內保持 48 小時,且度和濕度下恢復 1 小時,並在對試品進行測量。
7.3	Moisture Resistanc e 恒定濕熱	接觸電阻: 200mΩ Ma 絕緣電阻: 50MΩ Mir 無功能性不良。 開關外觀及結構應無損力	1.	After testing at 40 hours, the switch under normal conditions for 1 be made within shall be eliminate 試件在 40±2℃,小時,然後在正常	$0\pm~2^\circ$ C ,90~95% RH for 96 th shall be allowed to stand temperature and humidity hour, and measurement shall 1 hour after that. Water drops

Canalynan	Flactuation Co I td	檔編號	GY-002
GangYuan	Electronics Co.,Ltd	發佈日期	2018年3月30日
PRODUCT S	SPECIFICATION 產品規格書	檔版次	第A版 第0次修訂
SERIES 系列	MICRO SWITCH 微動開關	頁 碼	共8頁 第8頁

No.	Item 專案	Criteria 標準	Test Method 實驗方法		
7.4	Temperature Cycling 溫度轉換	After test, Contact resistance: 200m Ω Max. Insulation resistance:50M Ω Min. No functional defective occur. The switch shall be free from abnormalities in appearance & construction. 實驗後: 接觸電阻: 200m Ω Max. 絕緣電阻: 50M Ω Min. 無功能性不良。 開關外觀及結構應無損壞。	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. 試件按下述實驗條件試驗 5 次,然後在正常溫度和濕度下恢復 1 小時,並在此後 1 小時內對試品進行測量,水滴應消失。		
7.5	Salt Mist 鹽霧實驗	No remarkable corrosion shall be recognized in metal part. 在金屬件上沒有腐蝕斑點。	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.  試件在下述實驗後測量:  (1) 溫度: 35±2℃  (2) 鹽溶液濃度: 5±1%(品質百分比)  (3) 時間: 24±1 小時實驗後的鹽沉積物用水沖掉。		

### 8.Operating data diagram 操作參數示意圖



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

OT: Over travel
DT: Differential Travel
TT: Total Travel

操作力 回复力 全行程力 自由位置 动作位置

全行程位置 释放位置 行程 超行程 差动行程 全行程

# 单击下面可查看定价,库存,交付和生命周期等信息

>>Gangyuan (港源)