



ZIPPY TECHNOLOGY CORP.

10F, NO.50, MIN CHYUAN ROAD,  
SHIN-TIEN CITY, TAIPEI COUNTY,  
TAIWAN, R.O.C

TEL: 886-2-2918-8512 / 886-2-2918-0603  
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[Http://www.zippy.com.tw](http://www.zippy.com.tw)



## APPROVED DATA SHEET

Model: 1000110408(DM-03S-2P-Z)

ISSUED DATE: 2023.08.15

APPROVED NO.: 1000110408.H

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The undersigned guarantee of the model switches is meets the following specifications.

### 1.Operation Characteristics

|                            |   |               |
|----------------------------|---|---------------|
| Operating Force (OF)       | : | Max. 45 gf    |
| Releasing Force (RF)       | : | Min. 7 gf     |
| Free Position ( FP )       | : | Max. 13.5 mm  |
| Operating Position (OP)    | : | 10.5 ± 0.8 mm |
| Movement Differential (MD) | : | Max. 1.5 mm   |
| Over-travel (OT)           | : | Min. 0.6 mm   |
| Pre-travel (PT)            | : | Max. 3.8 mm   |

### 2. Specifications

|                                                                                                                  |   |                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Initial Contact Resistance                                                                                       | : | Max. 30 mΩ . ( Measured by ohm meter –Open Voltage<1VDC, Driver current -100mA )<br>Before measure the switch contact resistance, please press the switch three times on and off. |
| Initial Dielectric Strength                                                                                      | : | 1,000VAC(50-60HZ)/minute between contacts.<br>1,500VAC(50-60HZ)/minute between Live-parts and dead metal parts.                                                                   |
| Insulation Resistance                                                                                            | : | Min. 100 MΩ ( 500 VDC/ minute ) between Live-parts and dead metal parts.                                                                                                          |
| Circuit Arrangement                                                                                              | : | SPDT ( Single pole double throw )                                                                                                                                                 |
| Rating                                                                                                           | : | 3A 125VAC                                                                                                                                                                         |
| Service Life                                                                                                     | : | Min. 10,000 operations                                                                                                                                                            |
| Rating Load                                                                                                      | : | Resistive Load                                                                                                                                                                    |
| Operating Frequency                                                                                              | : | 10~30 operations per minute.                                                                                                                                                      |
| Safety Certificate                                                                                               | : | UL, cUL, ENEC                                                                                                                                                                     |
| Mechanical Service Life                                                                                          | : | Min. 1,000,000 operations.                                                                                                                                                        |
| Operating Frequency                                                                                              | : | Max. 120 operations per minute.                                                                                                                                                   |
| Operating application of the switch : Set the switch pushing distance from 60% to 90% of the specified OT value. |   |                                                                                                                                                                                   |



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### 3. Environments

Operating Temperature : -40°C ~ 65°C ( with no icing)  
Vibration Resistance : 10~55Hz, displacement 0.75mm(p-p)  
Shock Resistance : Destruction: 1,000 m/s<sup>2</sup> {approx. 100G} max.  
Malfunction: 300 m/s<sup>2</sup> {approx. 30G} max.

( For the pin plunger models, the vibration & shock condition apply for use at the free position and total travel position )

( For the lever models, the vibration & shock condition apply for use at the total travel position )

Soldering by hand : 300°C maximum within 5 seconds.

Soldering bath : 260°C maximum within 5 seconds.



### 4. Caution:

or click the link→ [https://www.zippy.com/ecmodelcautions/micro\\_switch\\_cautions.pdf](https://www.zippy.com/ecmodelcautions/micro_switch_cautions.pdf)

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卓妍蓁

PREPARED

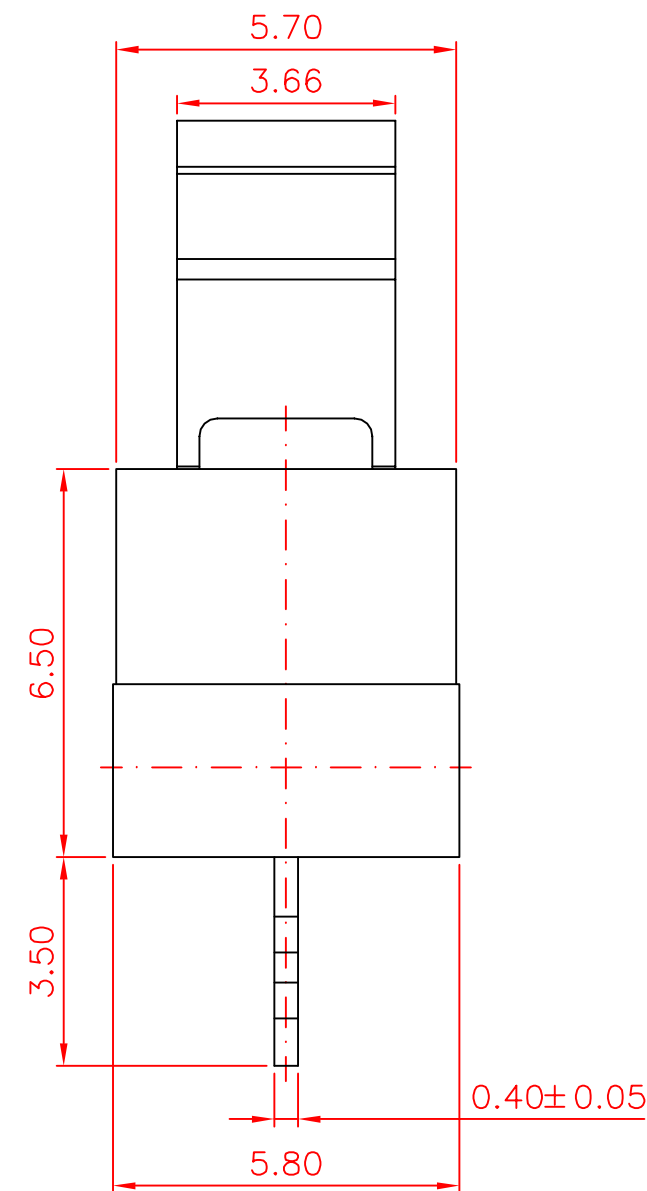
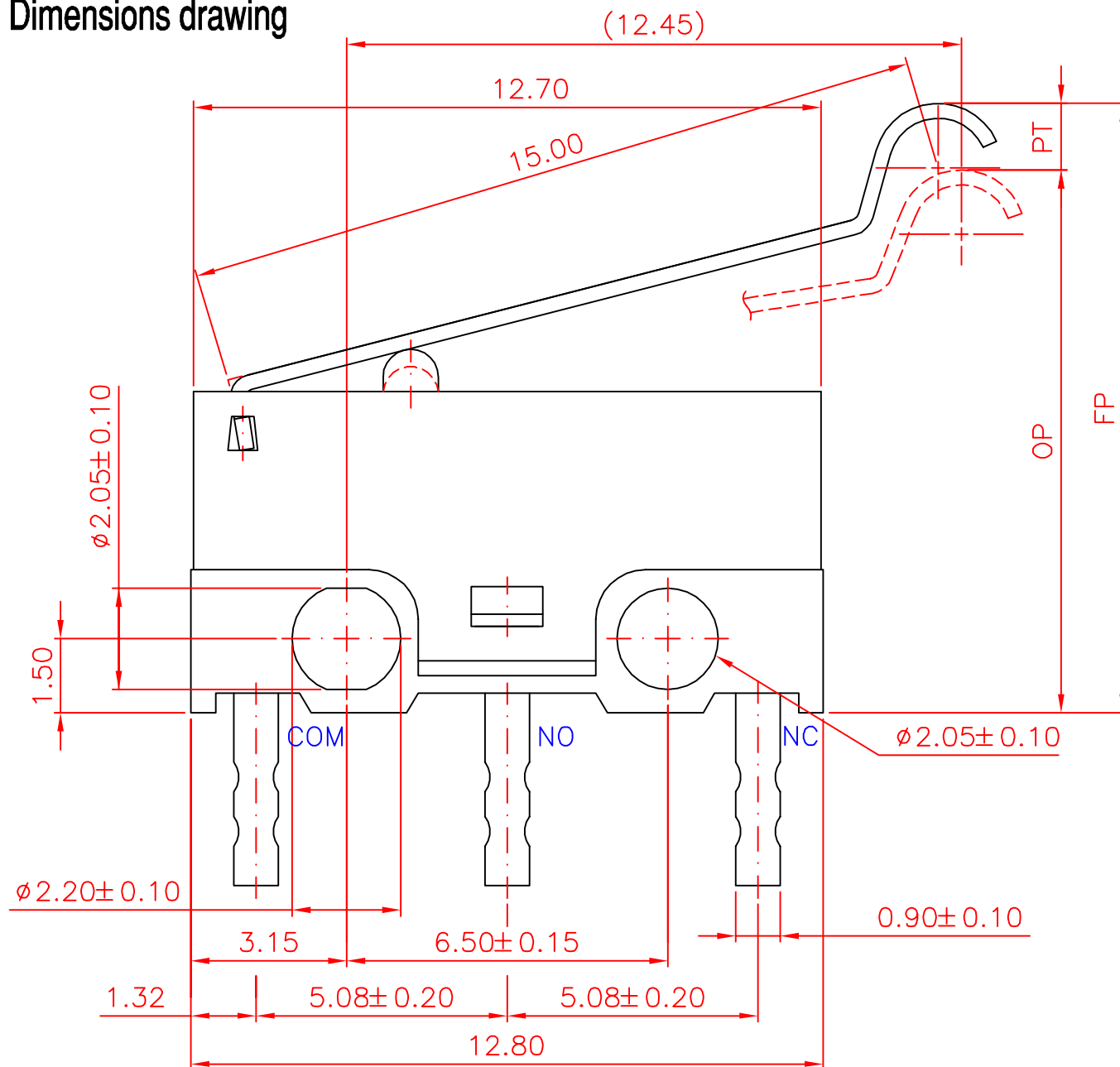
黃俊嘉

CHECKED

倪有庭

APPROVED

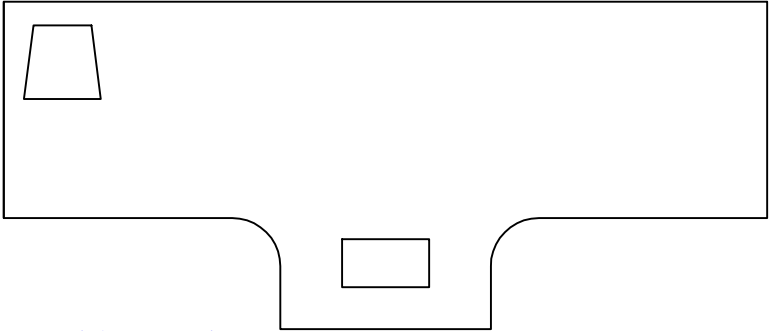
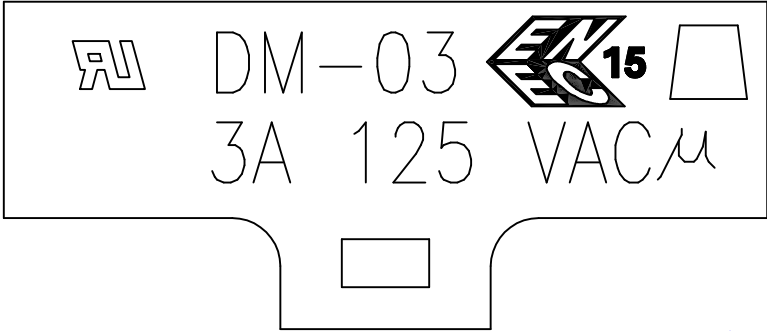
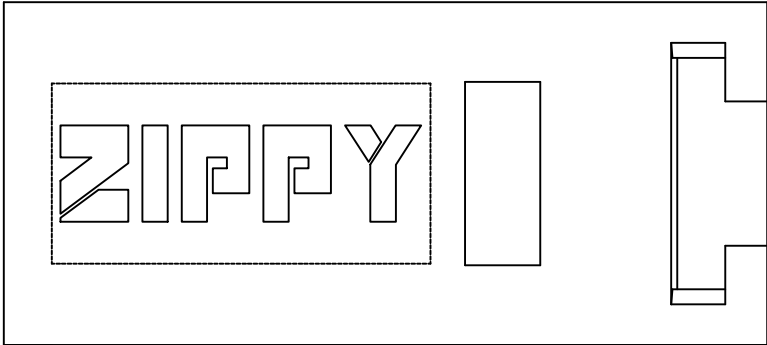
## Dimensions drawing



| Tolerance |       |
|-----------|-------|
| X.X       | ± 0.2 |
| XX.X      | ± 0.4 |

|                 |                                                                                       |                |            |                  |                |
|-----------------|---------------------------------------------------------------------------------------|----------------|------------|------------------|----------------|
| <b>VIEW</b>     |  | <b>SIZE</b>    | <b>A4</b>  | <b>UNIT</b>      | <b>mm</b>      |
| <b>DATE</b>     | <b>JAN 03.2012</b>                                                                    | <b>VER</b>     | <b>1.3</b> | <b>FILE NAME</b> | <b>DM-02P0</b> |
| <b>APPROVAL</b> | <b>李金龍</b>                                                                            | <b>CONFIRM</b> | <b>張哲維</b> | <b>DESIGN</b>    | <b>黃俊嘉</b>     |

Marking drawing



This page shows switch marking only.  
此頁僅顯示開關印字，外觀參照外觀圖  
Marking will be randomly on side A or side B  
印字可為A面或B面  
Marking can either be printed or molded  
印字可為印刷或模刻

|            |                        |          |                                                                                       |         |     |           |          |
|------------|------------------------|----------|---------------------------------------------------------------------------------------|---------|-----|-----------|----------|
| 新巨企業股份有限公司 | ZIPPY TECHNOLOGY CORP. | VIEW     |  | SIZE    | A4  | UNIT      | mm       |
|            |                        | DATE     | 2020.11.10                                                                            | VER     | 1.5 | FILE NAME | DM-03-02 |
|            |                        | APPROVAL | 倪有庭                                                                                   | CONFIRM | 歐大揮 | DESIGN    | 黃俊嘉      |