## Snap-action Microswitches - Ultraminiature F1

|  | F1 |
| :---: | :---: |
| Characteristics | - Long electrical rating from a very small switch <br> - Gold plated contacts <br> - PCB mounting from side <br> - UL and CSA approved |
| Rating | Up to $250 \mathrm{VAC}, 5 \mathrm{~A}$ |
| Dimensions (mm) | $16 \times 6.5 \times 5.7$ |
| Actuator | Plunger, plain lever |
| et4U. Approvals | UL, CSA |



Preferred Product Range

| Ordering Reference | Actuating <br> (N) | Force (oz) | Sealing | Operati (mm) | sition <br> (in) | Terminal | Circuit | Actuator | Contacts | Electrical rating |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| F1T8GPUL | 1.4 | 5.04 | IP40 | 6.35 | 0.25 | PCB | CO | Plunger | Gold plate | Up to $250 \mathrm{VAC}, 5 \mathrm{~A}$ |
| F1T8Y1GPUL | 0.5 | 1.80 | IP40 | 8.50 | 0.33 | PCB | CO | Lever | Gold plate | Up to $250 \mathrm{VAC}, 5 \mathrm{~A}$ |

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## Specifications

| Housing | Glass fiber reinforced nylon |
| :---: | :---: |
| Plunger | Nylon |
| Mechanism | Snap-action, coil spring mechanism with stainless steel spring |
| Functions | Single pole change-over |
| Contacts | Gold plate on silver |
| Terminals | PCB - copper, gold-flashed |
| Temperature range ${ }^{\circ} \mathrm{C}$ | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
| Mechanical life | $10^{6}$ cycles minimum (impact-free actuation) |
| Protection | IP40 (enclosure) |
| Mounting | Side mount PCB with locating pin on housing |
| Actuators | Plain plunger, straight lever |

Circuit diagram


Dimensions mm [in]


## Recommended Maximum Electrical Ratings

| Voltage (max) | Resistive load (A) | Inductive load | Approval |
| :---: | :---: | :---: | :---: |
| 250 VAC | 5 (0.75 pf) | 5 | UL 1054/CSA 22.2 No. 55-6.000 operations |
| 0-15 VDC | 5 |  | General rating - 50,000 operations |
| 15-30 VDC | 10 | 10 | General rating - 50,000 operations |

## F1 switches have gold-plated silver contacts.

Switches with gold-plated contacts are intended for use in circuits where switching is at milliwatt levels.
In this case, the power being switched must be limited to avoid the erosion of gold plate from the contact area.
However, as the underlying contacts are silver, the same power ratings apply.

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Operating Characteristics

*Plunger can be depressed flush with housing. The housing should not be used as an end stop.
Ordering Reference - How to Build a Part Number

|  | F1 |  |
| :---: | :---: | :---: |
| Terminals | T8 | PCB |
| Circuit | No digit | Change-over |
| Actuators | No digit Y1 YR1 | Plunger Plain lever <br> Roller lever |
| Contacts | GP | Gold plate on silver |
| Approvals | UL | UL and CSA |

