

F5

Snap-action Microswitches

Ultraminiature

F5

- small switch
- long mechanical and electrical life
- PCB mounting

ing 250 VAC, 5 A

m) 12.8 × 7 × 5

- plunger
- plain lever
- simulated roller lever/cam follower

als UL, CSA

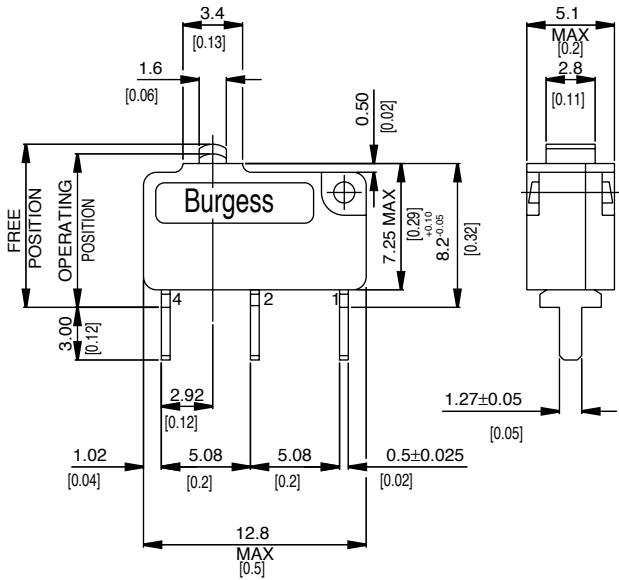
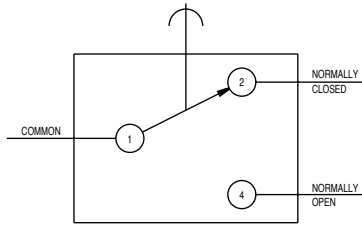


Preferred Range

| Reference | Actuating Force (N) (ozf) | | Sealing | Operating pos. (mm) (in) | | Terminal | Circuit | Actuator | Contacts | Electrical rating |
|-----------|------------------------------|------|---------|-----------------------------|------|----------|---------|------------------|------------|--------------------|
| UL | 1.4 | 5.00 | IP40 | 8.75 | 0.34 | PCB | CO | Plunger | Ag | Up to 250 VAC, 5 A |
| UL | 1.4 | 5.00 | IP40 | 8.75 | 0.34 | PCB | CO | Plunger | Gold plate | Up to 250 VAC, 5 A |
| UL | 0.6 | 2.20 | IP40 | 8.80 | 0.35 | PCB | CO | Plain lever | Ag | Up to 250 VAC, 5 A |
| UL | 0.6 | 2.20 | IP40 | 8.80 | 0.35 | PCB | CO | Plain lever | Gold plate | Up to 250 VAC, 5 A |
| UL | 0.7 | 2.50 | IP40 | 10.90 | 0.43 | PCB | CO | Simulated roller | Ag | Up to 250 VAC, 5 A |
| UL | 0.7 | 2.50 | IP40 | 10.90 | 0.43 | PCB | CO | Simulated roller | Gold plate | Up to 250 VAC, 5 A |

Specifications

| | |
|----------------------|--|
| Housing | Glass fibre reinforced nylon |
| Plunger | Nylon |
| Mechanism | Snap-action, single pole |
| Functions | Change-over, Normally open, Normally closed |
| Contacts | Fixed, Moving - Silver or Gold plate on silver |
| Terminals | PCB - Brass, gold flashed |
| Temperature range °C | -40°C to +85°C |
| Mechanical life | 10 ⁷ cycles minimum (impact free actuation) |
| Protection | IP 40 (enclosure) |
| Mounting | PCB |
| Actuators | Plain lever; simulated roller (cam follower) lever |



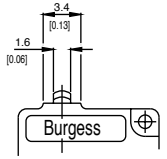
Recommended maximum electrical ratings

| Voltage (max) | Load (A) | Approval |
|---------------|-------------|--|
| 250 VAC | 5 (0.75 pf) | UL 1054/CSA 22.2 No. 55 - 6,000 operations |
| 125 VAC | 5 (0.75 pf) | UL 1054/CSA 22.2 No. 55 - 6,000 operations |
| 0 - 15 VDC | 5 | General rating - 50,000 operations |
| 15 - 30 VDC | 1 | General rating - 50,000 operations |

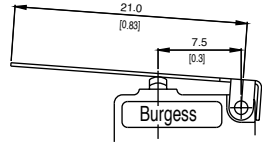
Operating Characteristics



| Actuator | Reference | Actuating Force | | Release Force | | Free Position | | Operating Position | | Movement Differential | | Over travel |
|----------|-----------|-----------------|-------|---------------|-------|---------------|------|--------------------|--------------|-----------------------|-------|-------------|
| | | Maximum (N) | (ozf) | Minimum (N) | (ozf) | Maximum (mm) | (in) | (mm) | (in) | Maximum (mm) | (in) | |
| ger | F5T8 | 1.4 | 5.00 | 0.25 | 0.90 | 9.5 | 0.37 | 8.75 ± 0.3 | 0.34 ± 0.012 | 0.13 | 0.005 | * |

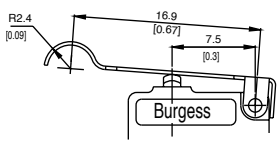


| | | | | | | | | | | | | |
|-----|--------|-----|------|------|------|------|------|-----------|-------------|------|-------|---|
| ver | F5T8Y1 | 0.6 | 2.20 | 0.07 | 0.25 | 10.7 | 0.42 | 8.8 ± 1.1 | 0.35 ± 0.04 | 0.70 | 0.030 | * |
|-----|--------|-----|------|------|------|------|------|-----------|-------------|------|-------|---|



Width of lever 3.0 mm/0.12 in

| | | | | | | | | | | | | |
|-----|--------|-----|------|------|------|------|------|-------------|-------------|------|-------|---|
| ver | F5T8YC | 0.7 | 2.50 | 0.09 | 0.32 | 12.4 | 0.49 | 10.9 ± 0.85 | 0.43 ± 0.03 | 0.45 | 0.020 | * |
|-----|--------|-----|------|------|------|------|------|-------------|-------------|------|-------|---|



Width of lever 3.0 mm/0.12 in

Operating characteristics are specified from the terminal shoulder.

* Plunger can be depressed flush with housing. The housing should not be used as an end stop.

Type coding key for standard products

| Type | Example: F5 | T8 | C2 | Y1 | GP | UL |
|-----------|-------------|-----------------------------|-----------------------|----|----|----|
| Materials | T8 | PCB | 1.27 × 0.5 × 3.0 long | | | |
| Circuit | C2 | No symbol, change-over | | | | |
| | C4 | Normally closed | | | | |
| | | Normally open | | | | |
| Colors | Y1 | No symbol, without lever | | | | |
| | YC | Plain lever 21.0 mm | | | | |
| | | Cam follower lever 16.9 mm | | | | |
| Material | GP | No symbol, Ag | | | | |
| | | Gold plate on Ag (GP) | | | | |
| Materials | UL | No symbol, without approval | | | | |
| | | UL and CSA approval | | | | |

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