



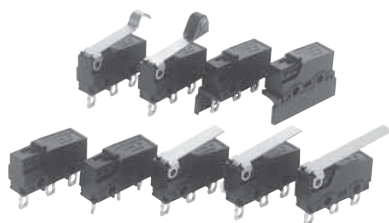
**THE DATASHEET OF
AVM3435P3**



Panasonic
ideas for life

**HIGH CAPACITY,
LONG LIFE SUBMINIATURE
SWITCH**

**AVM3□□□P (PS)
SWITCHES**



FEATURES

- 10.1 Amp. high contact capacity is available
- Long life
- Precise operating position ($\pm 0.25\text{mm}$: Pin plunger type)
- Flux-resistant construction with integrally molded terminals
- In-line terminals make soldering works easy
- UL/CSA/SEMKO approved

TYPICAL APPLICATIONS

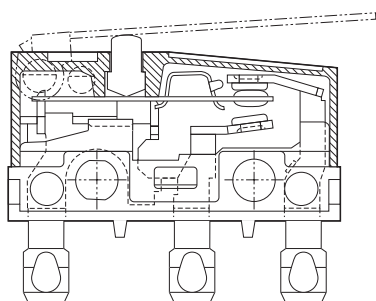
- Heaters
- Electric rice cookers
- Copiers
- Printers
- Facsimiles
- Vending machines
- Measuring equipment
- Audio equipment

ORDERING INFORMATION

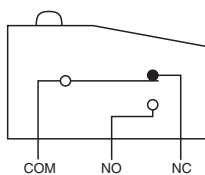
Ex. AVM3 1 0 5 P 3

Type of switch	Terminals	Actuators	Operating force by pin plunger, max.	Capacity	Agency standard
PS switch	1: Self-standing solder terminal with guard 2: Self-standing solder terminal without guard 3: Self-standing solder terminal with opposite side guard 4: Self-standing PC terminal	0: Pin plunger 1: Short hinge lever 2: Hinge lever 3: Long hinge lever 4: Simulated roller lever 5: Roller lever	5: 1.47 N	P: High capacity (10.1 A)	3: UL/CSA/SEMKO

CONSTRUCTION

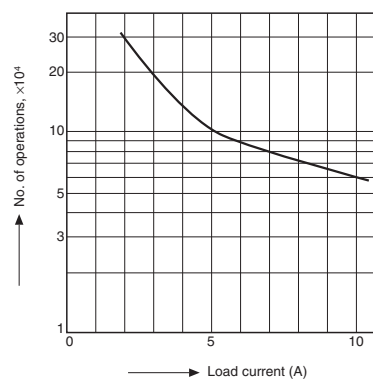


CONTACT ARRANGEMENT: SPDT



DATA

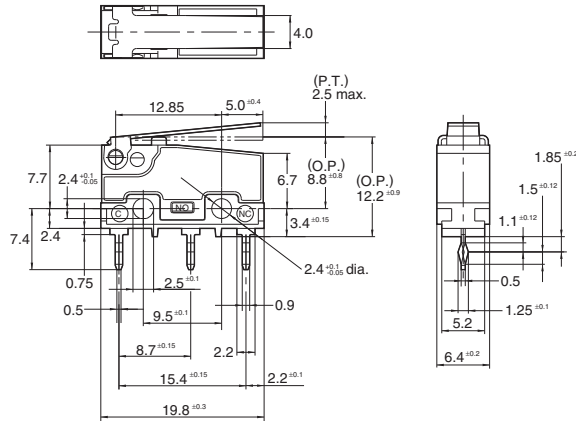
Electrical life curve



AVM3□□□P

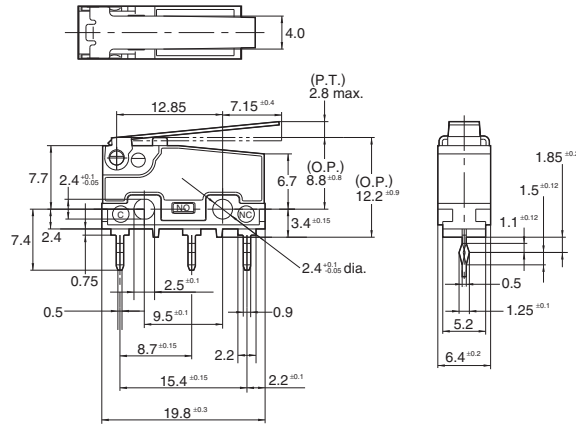
Short hinge lever

mm General tolerance: ± 0.25



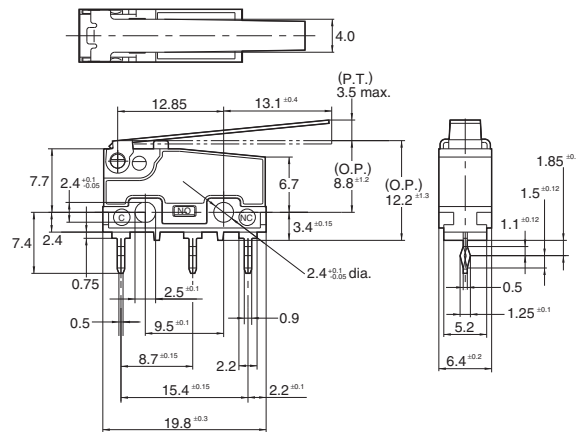
Pretravel, Max. mm		2.5
Movement differential, Max. mm		0.5
Overtravel, Min mm		0.8
Operating position	Distance from mounting hole, mm	8.8 \pm 0.8

Hinge lever



Pretravel, Max. mm		2.8
Movement differential, Max. mm		0.8
Overtravel, Min mm		1.2
Operating position	Distance from mounting hole, mm	8.8 \pm 0.8

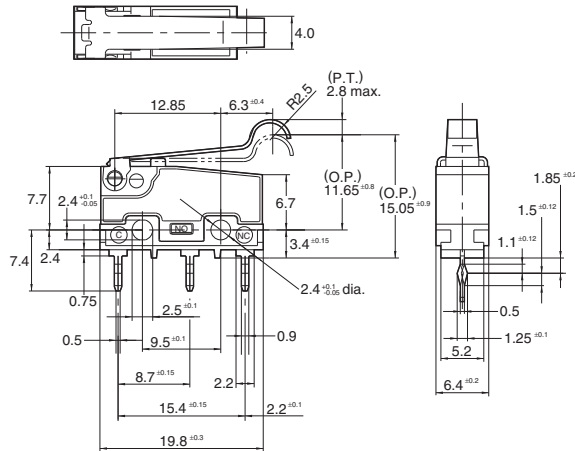
Long hinge lever



Pretravel, Max. mm		3.5
Movement differential, Max. mm		1.0
Overtravel, Min mm		1.6
Operating position	Distance from mounting hole, mm	8.8 \pm 1.2

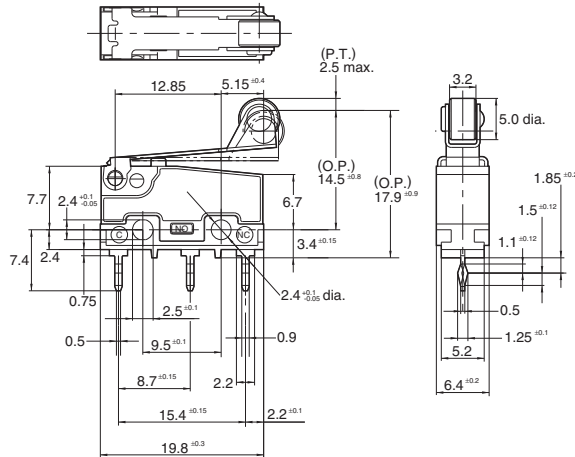
Simulated roller lever

mm General tolerance: ±0.25



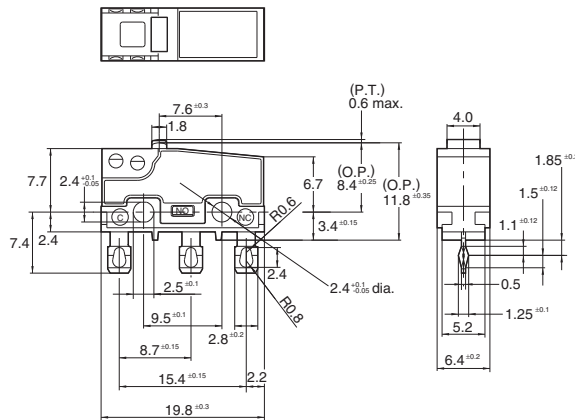
Pretravel, Max. mm	2.8
Movement differential, Max. mm	0.8
Overtravel, Min mm	1.2
Operating position	Distance from mounting hole, mm
	11.65±0.8

Roller lever



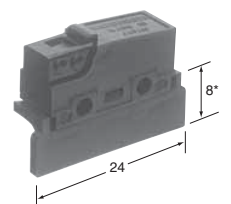
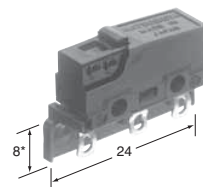
Pretravel, Max. mm	2.5
Movement differential, Max. mm	0.5
Overtravel, Min mm	0.8
Operating position	Distance from mounting hole, mm
	14.5±0.8

2. Self-standing solder terminal
Pin plunger



With guard

With opposite side guard



* The height from the center of mounting hole to the edge of guard.

NOTES

1. Fastening of the switch body

- 1) Use flat filister head M2.3 screws to mount switches with less than a 0.29 N·m torque. Use of screws washers or adhesive lock is recommended to prevent loosening of the screws.
- 2) Check insulation distance between ground and each terminal.
- 3) When the operation object is in the free position, force should not be applied directly to the actuator or pin plunger from vertical direction to the switch.
- 4) In setting the movement after operation, the over-travel should be set more than 70% as a standard. Setting the movement at less than 70% of O.T. may cause troubles such as miscontact and welding due to small contact force of the switch.
- 5) For a lever type, the force from the reverse and side to the operation direction should not be applied.

2. Soldering operations

For manual soldering:
Soldering should be accomplished in less than 3 seconds, with a 60 watt iron. Care should be taken not to apply force to the terminal during soldering.

For automatic soldering:
Soldering should be done less than 6 seconds in 260°C soldering bath or less than 3 seconds in 350°C soldering bath. Terminal portions should not be moved within 1 minute after soldering. Also no tensile strength of lead wires should be applied to the terminals.

3. Selection of the switch

When specifying the switch, allow $\pm 20\%$ to the listed operating characteristics.

4. Environment

Avoid using the switches in the following conditions;

- In corrosive gases, such as silicon gas
- In a dusty environment

5. Cautions regarding use

When switching low-level circuits (6V DC 5mA, 12V DC 2mA, 24V DC 1mA), FS/FS-T Au clad contact type switches are recommended. When used to switch inductive loads (relays, solenoids, buzzers, etc.), it is recommended that a proper spark quench circuit is inserted in the switch to prevent contact faults caused by electric arcs. Care should be taken that occurrence in AC load possibly shorten the expected life.

6. Quality check under actual loading conditions

To assure reliability, check the switch under actual loading conditions. Avoid any situation that may adversely affect switching performance.

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