Panasonic
INDUSTRY

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Last time buy: March 31, 2026

For detection: Non Seal Type Switches

AV4 (FU) Switches

Product Catalog

IN Your Future

2025.3

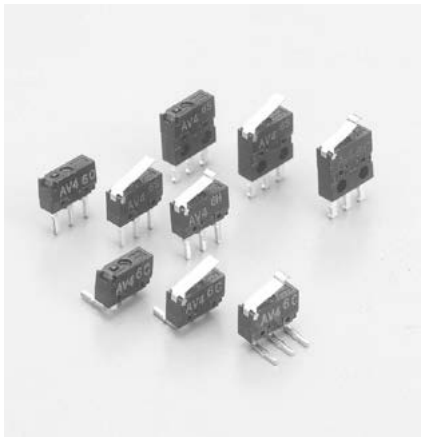
For detection: Non Seal Type Switches

RoHS

AV4 (FU) Switches

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Ultra-miniature Size, Light-weight Snap action Switches



FEATURES

- Type available with mounting holes that are easy to install and that can be directly soldered
- P/C board terminal type with international 2.54 mm pitch for dense mounting
- Mechanical long life: 300,000 operations minimum
- Protection grade: IP40

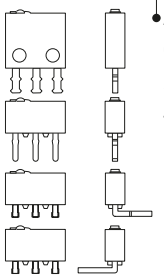
TYPICAL APPLICATIONS

- Compact visual equipment
- Compact audio equipment
- Office automation equipment
- Other small portable electronic devices

ORDERING INFORMATION (PART NO.)

AV 4 ☐ ☐ 4 ☐

Terminals
0: Solder terminal with mounting holes (φ1.65 mm)
4: P/C board straight terminal
5: P/C board angle terminal (Right angle terminal)
6: P/C board reverse angle terminal (Left angle terminal)



Actuators
0: Pin plunger
2: Hinge lever
4: Simulated roller lever



Operating Force OF, Max. (by pin plunger)
4: 0.98 N

Contact material
Nil: Ag plated contact
61: Au plated contact

TYPES

Type of contacts	Actuator	Operating Force (OF) Max.	Part No.			
			P/C board terminal			Solder terminal with mounting holes
			Straight terminal	Right angle terminal	Left angle terminal	
Ag plated contact type	Pin plunger	0.98 N	AV4404	AV4504	AV4604	AV4004
	Hinge lever	0.25 N	AV4424	AV4524	AV4624	AV4024
	Simulated roller lever	0.29 N	AV4444	AV4544	AV4644	AV4044
Au plated contact type	Pin plunger	0.98 N	AV440461	AV450461	AV460461	AV400461
	Hinge lever	0.25 N	AV442461	AV452461	AV462461	AV402461
	Simulated roller lever	0.29 N	AV444461	AV454461	AV464461	AV404461

Note) Color of plunger
Ag plated contact type: black
Au plated contact type: dark red

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RATING

■ Contact rating

Type of contact	Load type: Resistive load (cosϕ ≒ 1)
Ag plated contact Plunger color: Black	0.5 A 30 V DC
Au plated contact Plunger color: Dark red	0.1 A 30 V DC

■ Specifications

Items			Specifications
Expected life	Mechanical (OT) Max.		Min. 3 × 10^5 operations (at 60 cpm)
	Electrical (OT) Max.	Ag plated contact	Min. 2 × 10^4 operations (0.5 A 30 V DC; at 20 cpm)
		Au plated contact	Min. 2 × 10^5 operations (0.1 A 30 V DC; at 20 cpm)
Insulation resistance			Min. 100 MΩ (250 V DC by insulation resistance meter)
Dielectric strength	Between non-continuous terminals		500 Vrms for 1 min
	Between each terminal and other exposed metal parts		500 Vrms for 1 min
	Between each terminal and ground		500 Vrms for 1 min
Contact resistance (initial)			Max. 200 mΩ
Vibration resistance		Pin plunger type	10 to 55 Hz at single amplitude of 0.75 mm (contact opening: max. 1 ms)
		Lever type	10 to 55 Hz at single amplitude of 0.15 mm (contact opening: max. 1 ms)
Shock resistance		Pin plunger type	Min. 294 m/s^2 (contact opening: max. 1 ms)
		Lever type	Min. 147 m/s^2 (contact opening: max. 1 ms)
Allowable operation speed			0.1 to 500 mm/s (pin plunger type)
Mechanical max. switching frequency			60 operations/min
Ambient temperature			−25 to +80 ℃ (no freezing and condensing)
Unit weight			P/C board terminal type : Approx. 0.2 g Solder terminal with mounting holes type: Approx. 0.3 g
Protection grade			IP40

Note) Test conditions and judgement are in accordance with NECA C 4505.

■ Operating characteristics

1) P/C board terminal

Actuators	Operating Force (OF) Max.	Release Force (RF) Min.	Pretravel (PT) Max.	Movement Differential (MD) Max.	Overtravel (OT) Min.	Operating Position (OP)
Pin plunger	0.98 N	0.098 N	0.3 mm	0.1 mm	0.1 mm	4.8±0.15 mm
Hinge lever	0.25 N	0.010 N	2.4 mm	0.7 mm	0.4 mm	5.8±0.7 mm
Simulated roller lever	0.29 N	0.010 N	2.2 mm	0.7 mm	0.3 mm	6.1±0.7 mm

2) Solder terminal

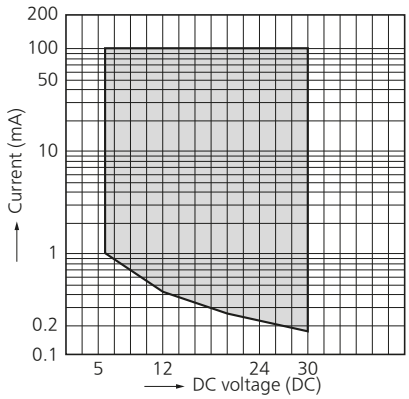
Actuators	Operating Force (OF) Max.	Release Force (RF) Min.	Pretravel (PT) Max.	Movement Differential (MD) Max.	Overtravel (OT) Min.	Operating Position (OP)
Pin plunger	0.98 N	0.098 N	0.3 mm	0.1 mm	0.1 mm	5.4±0.15 mm
Hinge lever	0.25 N	0.020 N	2.4 mm	0.7 mm	0.4 mm	6.4±0.6 mm
Simulated roller lever	0.29 N	0.020 N	2.2 mm	0.7 mm	0.3 mm	6.7±0.5 mm

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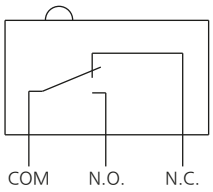
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DATA

Applicable current and voltage range for Au contact type (reference)



CONTACT FORM



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DIMENSIONS (Unit: mm)

CAD The CAD data of the products with a " CAD " mark can be downloaded from our Website.

■ P/C board terminal

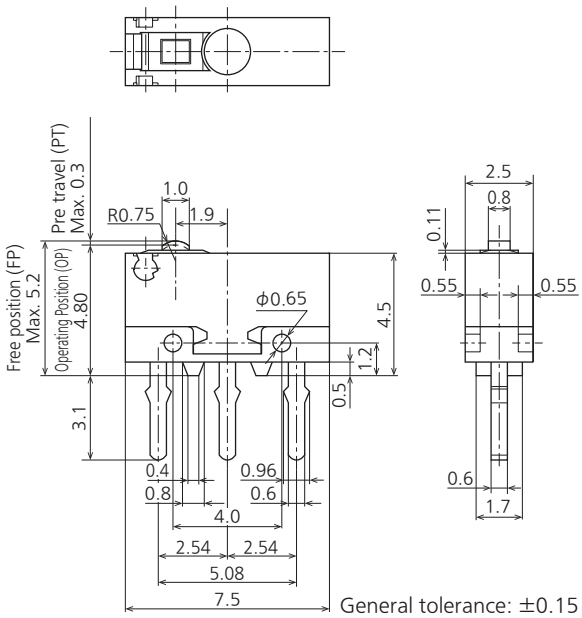
CAD

● Straight terminal

• Pin plunger

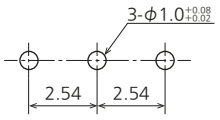


External dimensions



General tolerance: ±0.15

P/C board pattern

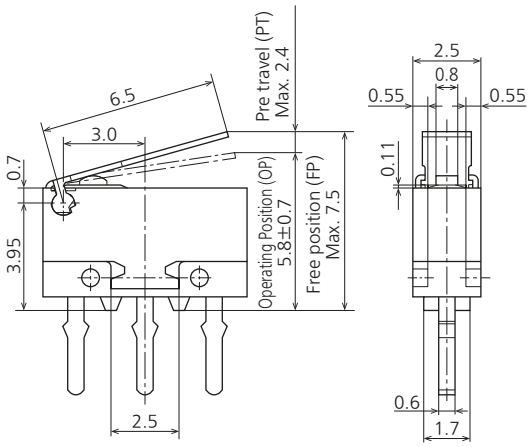


Pretravel (PT) Max.	0.3 mm
Movement Differential (MD) Max.	0.1 mm
Overtravel (OT) Min.	0.1 mm
Operating Position (OP)	4.8±0.15 mm
Free Position (FP) Max.	5.2 mm

• Hinge lever type



External dimensions



General tolerance: ±0.15

Note) All other dimensions are the same as those of pin plunger type.

Pretravel (PT) Max.	2.4 mm
Movement Differential (MD) Max.	0.7 mm
Overtravel (OT) Min.	0.4 mm
Operating Position (OP)	5.8±0.7 mm
Free Position (FP) Max.	7.5 mm

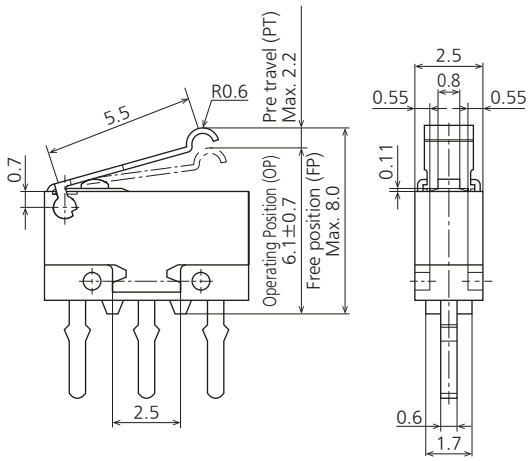
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- Simulated roller lever type



External dimensions



General tolerance: ±0.15

Note) All other dimensions are the same as those of pin plunger type.

Pretravel (PT) Max.	2.2 mm
Movement Differential (MD) Max.	0.7 mm
Overtravel (OT) Min.	0.3 mm
Operating Position (OP)	6.1±0.7 mm
Free Position (FP) Max.	8.0 mm

■ Angle terminal

CAD

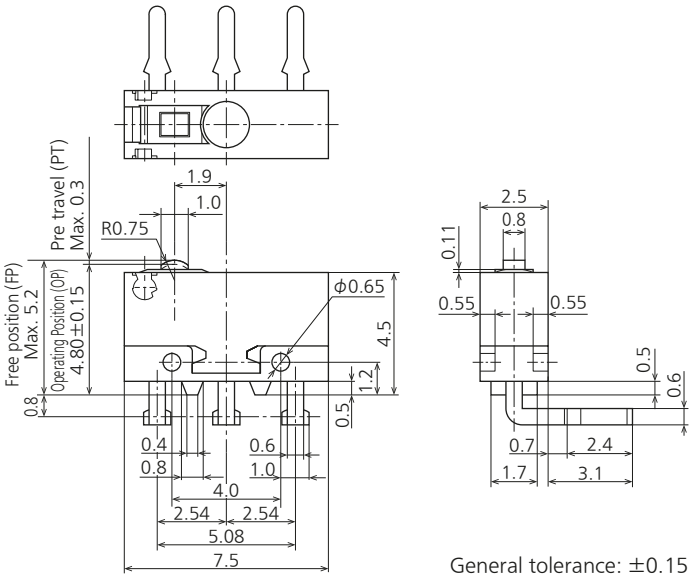
● Right angle terminal

- Pin plunger



Right angle terminal

External dimensions



General tolerance: ±0.15

Note) All other dimensions of hinge lever type and simulated roller lever type are the same as those of straight terminal types.

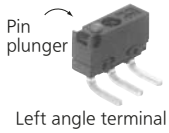
Pretravel (PT) Max.	0.3 mm
Movement Differential (MD) Max.	0.1 mm
Overtravel (OT) Min.	0.1 mm
Operating Position (OP)	4.8±0.15 mm
Free Position (FP) Max.	5.2 mm

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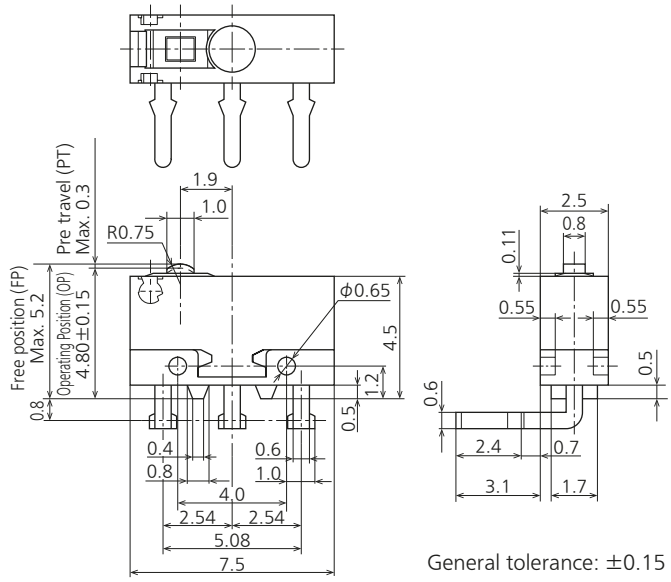
● Left angle terminal

• Pin plunger



Left angle terminal

External dimensions



General tolerance: ±0.15

Note) All other dimensions of hinge lever type and simulated roller lever type are the same as those of straight terminal types.

Pretravel (PT) Max.	0.3 mm
Movement Differential (MD) Max.	0.1 mm
Overtravel (OT) Min.	0.1 mm
Operating Position (OP)	4.8±0.15 mm
Free Position (FP) Max.	5.2 mm

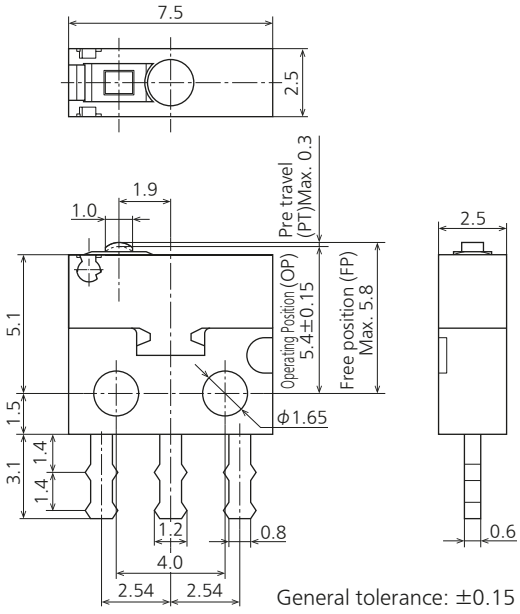
■ Solder terminal with mounting holes

CAD

● Pin plunger



External dimensions



General tolerance: ±0.15

Pretravel (PT) Max.	0.3 mm
Movement Differential (MD) Max.	0.1 mm
Overtravel (OT) Min.	0.1 mm
Operating Position (OP)	5.4±0.15 mm
Free Position (FP) Max.	5.8 mm

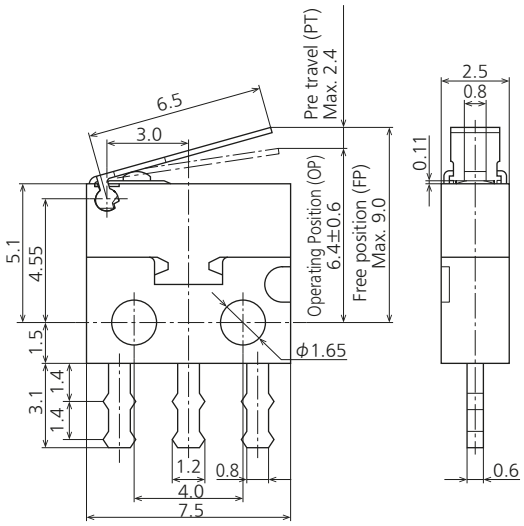
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● Hinge lever



External dimensions



General tolerance: ±0.15

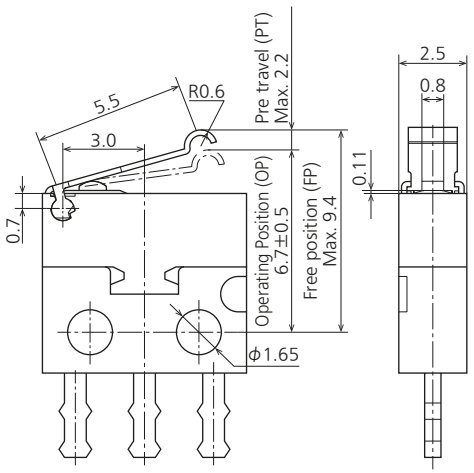
Note) All other dimensions are the same as those of pin plunger type.

Pretravel (PT) Max.	2.4 mm
Movement Differential (MD) Max.	0.7 mm
Overtravel (OT) Min.	0.4 mm
Operating Position (OP)	6.4±0.6 mm
Free Position (FP) Max.	9.0 mm

● Simulated roller lever



External dimensions



General tolerance: ±0.15

Note) All other dimensions are the same as those of pin plunger type.

Pretravel (PT) Max.	2.2 mm
Movement Differential (MD) Max.	0.7 mm
Overtravel (OT) Min.	0.3 mm
Operating Position (OP)	6.7±0.5 mm
Free Position (FP) Max.	9.4 mm

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GUIDELINES FOR USAGE

■ Fastening of the switch body

1) In fastening the switch body, use the M1.4 screw (3 types ... screw head diameter from 2.4 dia. to 2.6 dia.) , with tightening torque of not more than 0.098 N•m.
2) In setting the movement after operation, the over-travel should be set within the range of the minimum OT value. Please set up so that an operation object does not apply force to the switch body.

■ Environment

Avoid using and storing these switches in a location where they will be exposed to corrosive gases, silicon, or high dust levels, all of which can have an adverse effect on the contacts.

■ Soldering

1) Manual soldering should be accomplished within 5 seconds with max. 320 ℃ iron. Care should be taken not to apply force to the terminals during soldering.
2) Terminal portion must not be moved within 1 minute after soldering. Also no tensile strength of lead wires should be applied to the terminals.
3) When using the angle terminal type, insert an insulation separator between the switch body and the P/C board (Insulation separator 0.2 to 0.4 mm thick) to prevent the soldering flux from flowing under the P/C board.

■ Cleaning

As AV4 (FU) switch is not completely sealed construction, avoid cleaning.

■ Selection of switch

Please make your selection so that there will be no problems even if the operating characteristics vary up to ±20 % from the standard values.

■ When switching low-level circuits (Max. 100 mA) , Au plated contact types are recommended.

Please refer to " the latest product specifications " when designing your product.
• Requests to customers:
https://industry.panasonic.com/global/en/salespolicies

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Technical Terminology & Cautions for Use (Detection Switches)

TECHNICAL TERMINOLOGY

■ Detection Switches
A compact switch equipped with an enclosed micro-gap snap-action contact mechanism that makes a specified motion with a specified force to open/close a circuit, and an actuator outside the enclosure (hereinafter referred to as the switch)

■ Actuator
A part of the switch that transmits the received external force to an internal spring mechanism to move the movable contact so that the switch can be opened and closed

■ Actuator stopper
A part of the switch to limit the actuator movement in the switch operation direction

■ Rated values
Values indicating the characteristics and performance guarantee standards of the snap-action switches. The rated current and rated voltage, for instance, assume specific conditions (type of load, current, voltage, frequency, etc.) .

■ Mechanical life
The service life when operated at a preset operating frequency without passing electricity through the contacts.
(The life test is performed at a switching frequency of 60 times/minute and operating speed of 100 mm/second at the regular cam.)

■ Electrical life
The service life when the rated load is connected to the contact and switching operations are performed.
(The life test is performed at a switching frequency of 20 times/minute and operating speed of 100 mm/second at the regular cam.)

■ Contact form
This refers to the components determining the type of application which make up the electrical input/output circuits in the contact.

SPDT	
SPST-N.C.	
SPST-N.O.	

■ Insulation resistance
Resistance between non-continuous terminals, each terminal and other exposed metal parts and between each terminal and ground.

■ Dielectric
Threshold limit value that a high voltage can be applied to a predetermined measuring location for one minute without causing damage to the insulation.

■ Contact resistance
This indicates the electrical resistance at the contact part. Generally, this resistance includes the conductor resistance of the spring and terminal portions.

■ Vibration resistance
Malfunction vibration ... Vibration range where a closed contact does not open for longer than a specified time due to vibrations during use of the snap-action switches.

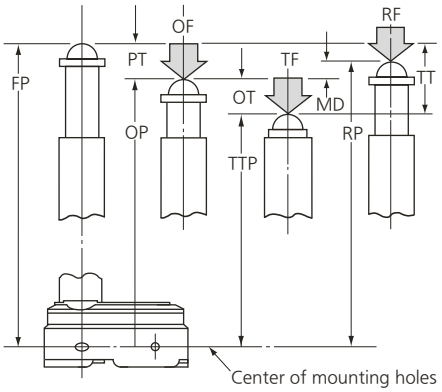
■ Shock resistance
Shock durability ... Shock range where the mechanical shocks received during snap-action switches transport and installation do not damage the parts or harm the operating characteristics.
Malfunction shock ... Shock range where a closed contact does not open for longer than a specified time due to shocks during use of the snap-action switches.

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TECHNICAL TERMINOLOGY

■ Definition of operating characteristic

The main terminological illustrations and meanings which are used with snap-action switches are as follows.



Classification	Terminology	Symbol	Unit	Varying display method	Starting current
Force	Operating Force	OF	N	Max.	The force required to cause contact snap-action. It is expressed terms of force applied to the actuator.
	Release Force	RF	N	Min.	The force to be applied to the actuator at the moment contact snaps back from operated position to total travel position.
	Total travel Force	TF	N		Force applied to an actuator required to move from an operating position to a total travel position
Movement	Pretravel	PT	mm, degree	Max.	Distance or agree of the actuator movement from free position to operating position.
	Over travel	OT	mm, degree	Min.	The distance or degree which the actuator is permitted to travel after actuation without any damage to the switching mechanism.
	Movement Differential	MD	mm, degree	Max.	The distance or degree from operating position to release position of the actuator.
	Total travel	TT	mm, degree		The migration length or the move angle from the free position to total travel position of actuator
Position	Free Position	FP	mm, degree		Position of the actuator when no force is applied to.
	Operating Position	OP	mm, degree	±	The position of the actuator when the traveling contacts snaps with the fixed contact.
	Release Position	RP	mm, degree		The position of the actuator when the traveling contacts snaps back from operating position to its original position.
	Total travel Position	TTP	mm, degree		The stopping position of the actuator after total travel.

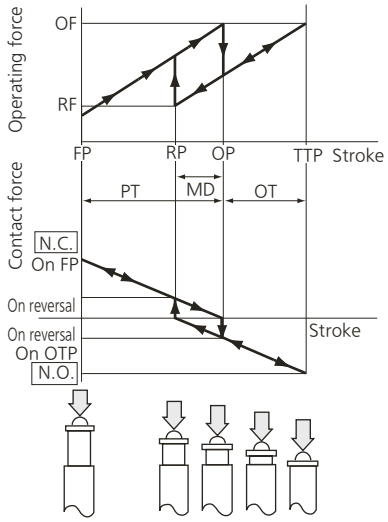
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TECHNICAL NOTES ON MECHANICAL CHARACTERISTICS

■ Actuation Force and Stroke

Adequate stroke setting is the key to high reliability. It is also important that adequate contact force be ' maintained to ensure high reliability. For a normally closed (N.C.) circuit, the driving mechanism should be set so that the actuator is normally in the free position. For a normally open (N.O.) circuit, the actuator should be pressed to 70 % to 100 % of the specified stroke to absorb possible errors.
If the stroke is set too close to the operating point (OP) , this may cause unstable contact, and in the worst case may cause actuator damage due to inertia of the drive mechanism. It is advisable that the stroke be adjusted with the mounting plate or driving mechanism.

The figure at right shows a typical example of activation and contact forces varying with stroke.
In the vicinity of the OP and RP, the contact force is diminished, causing chatter and contact bounce immediately before or after reversal. For this reason, use the switch while giving due consideration to this. This also causes the snap action switch to be sensitive to vibration or shock.



■ Changes in Operating Characteristics

Exercise design care so that malfunctions will not occur if the operating characteristics vary by as much as 20 % from, rated values.
＜ Example ＞
In the OF Max. 0.98 N specification for FS snap-action switches,
the allowable Max. is 0.98 N (100 % + 20 %) = 1.18 N
In the RF Min. 0.15 N Min. specification,
the allowable Min. 0.15 N (100 % − 20 %) = 0.12 N

■ Mechanical Conditions for Type Selection

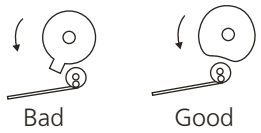
Actuator type should be selected according to activation method, activation speed, activation rate, and activation frequency.

1) An extremely slow activation speed may cause unstable contact transfer, possibly resulting in contact failures or contact fusion.
2) An extremely high activation speed may cause damage to contacts or contact response failure.

■ Driving Mechanism

Use of a driving mechanism which will cause physical impact to the actuator should be avoided.

<Example>

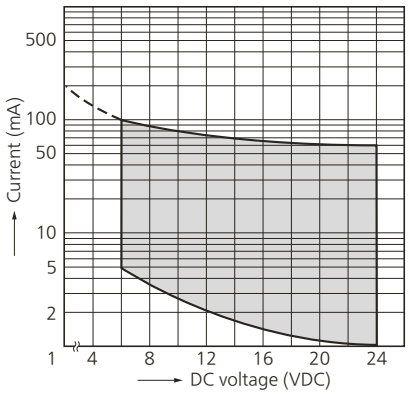


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TECHNICAL NOTES ON ELECTRICAL CHARACTERISTICS

1) The snap-action switch is designed for AC operations. While it has small contact gaps and no arc absorber, it may be used for low-capacity DC operations. Please refer to the rating of each product
2) For applications with very small switching voltage or current, choose the low-level load type (Au contact) .

Small current and voltage application range (Au contact)

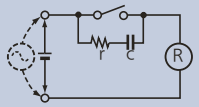
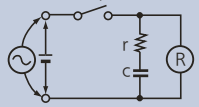
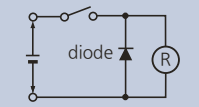
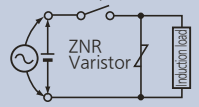


3) When selecting a contact type of a snap-action switch to be used for low-level load switching, the following should be noted.
Silver contacts' surfaces are prone to be oxidized and form a sulfide film. The switch operates with no problems at the beginning of use. However, as the contact surfaces develop films with time, the film may not be broken by the switching operation, causing a conduction failure. Therefore, please choose the Au contact type for switching a load of 0.1 A or below.
4) Application to Electronic Circuits
   - The snap-action switch contacts can sustain bounce or chatter when closed. Bounce or chatter can cause noise or pulse count errors when the snap action switch is used in electronic circuits.
   - If contact bounce or chatter poses problems in the vicinity of the OP and RP, use a suitable absorption network, such as a C/R network.
5) Check the surge current, normal current and surge duration.
6) Contact resistance given in performance specifications is measured with a voltage drop method using 6 to 8 V DC, 1 A (except for low-level load type). Contact resistance across COM and N.C. terminals is measured in the free position, while contact resistance across COM and N.O. terminals is measured in the total travel position.
7) To prevent contact welding failure, be sure to use a serial resistance for each capacitive load.
8) If snap-action switch operation is synchronized with the AC supply phase, this may cause: shortened electrical life, contact fusion failure, contact transfer, or other reliability problems.

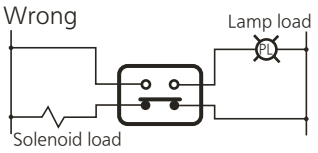
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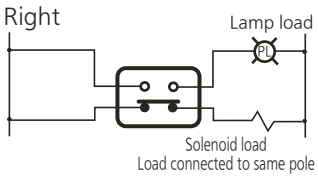
CAUTIONS IN A CIRCUIT

1) Contact protection is recommended when snap-action switches are used in an inductive load circuit.

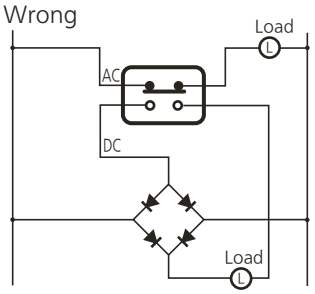
Circuit diagram	Cautions for use
Contact for snap-action switch 	(1) r = more than 10 Ω (2) In an AC circuit Impedance of R is to be slightly smaller than impedance of r and c.
Contact for snap-action switch 	Can be used for both AC and DC. Impedance of r is nearly equal to impedance of R. C: 0.1 μF
Contact for snap-action switch 	(1) For DC circuits only.
Contact for snap-action switch 	Can be used for both AC and DC.

2) Do not connect the contacts on individual switches to different type or different poles of the power supply.
Examples of power supply connections (connection to different poles)

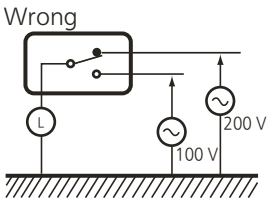




Example of wrong power supply connection (connection to different poles of power supply)
This may lead to mixed DC and AC.



3) Avoid circuits which apply voltage between contacts.
(This may lead to mixed deposition.)



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MOUNTING STATE AND ENVIRONMENT

■ Checking the insulation distance

After mounting and wiring, check the insulation distance between terminals and the ground. If the insulation distance is inadequate, mount insulating material between as required.

■ Fastening the snap-action switch body

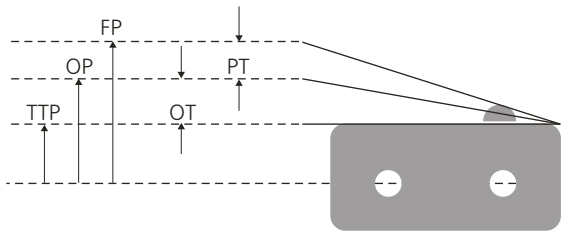
See the Section " CAUTIONS FOR USE " for the individual switch.

■ Position adjustment with effector

1) The effector should be positioned so that direct force is not applied to the plunger or actuator in its free position. The operating force to the plunger should only be applied in a perpendicular direction.
2) Note that the use of the switch as a stopper may cause an operational problem.

■ Switch installation position

- Basically, the switch should be installed so that the object to press the switch's plunger or lever can press it down to 70 to 100 % of OT of the switch. When determining the position, the tolerance of OP (Operating Position) and other factors should be taken into account.
  The following describes the case where the strictest tolerance conditions are adopted.
- Example: Hinge lever type FS switch
  Reference values: OP = 8.8±0.8 mm
  PT = Max. 2.8 mm
  OT = Min. 1.2 mm

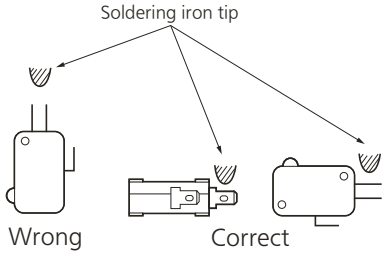


① When the switch is not pressed
The object to press the lever should not be in contact with the lever.
For this purpose, the object should be at a distance from the switch father than the maximum FP (Free Position) value.
FP Max = OP Max + PT Max = 9.6 + 2.8 = 12.4 mm Max
The object should be at a distance of 12.4 mm or more from the mounting hole.
② Depressed position
The plunger/lever should be pressed down to 70 % or more of OT (Over Travel). Therefore, the depressed position should be calculated based on the minimum value of OP (Operating Position) and the 70 and 100 % of the OT value.
OP Min − 70 % of OT = 8.0 − 0.84 = 7.16 mm
OP Min − 100 % of OT = 8.0 − 1.2 = 6.80 mm
The plunger/lever should be pressed down to the position of 6.80 to 7.16 mm from the mounting hole.

■ Soldering precautions

For manual soldering, lay the terminals flat (horizontal with the ground) and quickly perform the soldering operation using a soldering iron with the appropriate heat capacity and the proper amount of solder. Take care that the flux does not flow into the switch interior by using a ventilation fan to discharge flux gas and to prevent contact of the switch body with the soldering iron tip.
Be careful not to apply force to the lead wires or the terminal portions immediately after soldering.
The temperature setting and time conditions vary depending on the product.
See the section " CAUTIONS FOR USE " for each product.

<Examples>



■ Avoid using in a silicon atmosphere*

Avoid using organic silicon rubber, adhesives, sealing compounds, oil, grease, and wires in a silicon atmosphere.

■ Please consult us when using under the following conditions*

1) Environments where hydrogen sulfide or other corrosive gases are present.
2) Environments where gasoline, thinner or other flammable, explosive gases are present.
3) Dusty environments (for non-seal type snap action switches).
4) The perpendicular operating speed exceeds the allowable operating speed.
5) Switching between different poles.
6) Use in environments not in the prescribed temperature or humidity range.

* Select contact sulfurization (clipping) prevention products (FS and Au-clad double layer contacts) for use with extremely small loads or an environment-resistant Turquoise switch.

■ Storage precautions

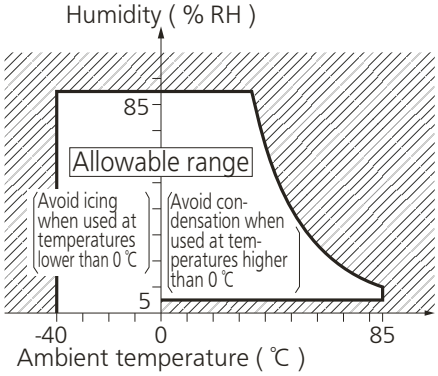
To prevent discoloration due to sulfurization of the terminals (silver-plated) , store the switches in a polyethylene bag or other suitable airtight container.

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■ Usage, storage, and transport conditions (except turquoise switches)

During usage, storage, or transportation, avoid locations subject to direct sunlight and maintain normal temperature, humidity, and pressure conditions.
The allowable specifications for environments suitable for usage, storage, and transportation are given below.

1) Temperature: The allowable temperature range differs for each switch, so refer to the switch's individual specifications. In addition, when transporting or storing switches while they are tube packaged, there are cases when the temperature may differ from the allowable range. In this situation, be sure to consult the individual specifications.
2) Humidity: The allowable temperature range differs for each switch, so refer to the switch's individual specifications.
3) Pressure: 86 to 106 kPa
   The humidity range varies with the temperature. Use within the range indicated in the graph below.



(The allowable temperature depends on the switch.)

- Condensation will occur inside the switch if there is a sudden change in ambient temperature when used in an atmosphere of high temperature and high humidity. This is particularly likely to happen when being transported by ship, so please be careful of the atmosphere when shipping. Condensation is the phenomenon whereby steam condenses to cause water droplets that adhere to the switch when an atmosphere of high temperature and humidity rapidly changes from a high to low temperature or when the switch is quickly moved from a low humidity location to one of high temperature and humidity.
  Please be careful because condensation can cause adverse conditions such as deterioration of insulation, coil cutoff, and rust.
- Condensation or other moisture may freeze on the switch when the temperatures is lower than 0 ℃ 32 ℉. This causes problems such as sticking of movable parts or operational time lags.
- The plastic becomes brittle if the switch is exposed to a low temperature, low humidity environment for long periods of time.
- Storage for extended periods of time (including transportation periods) at high temperatures or high humidity levels or in atmospheres with organic gases or sulfide gases may cause a sulfide film or oxide film to form on the surfaces of the contacts and/or it may interfere with the functions. Check out the atmosphere in which the units are to be stored and transported.
- In terms of the packing format used, make every effort to keep the effects of moisture, organic gases and sulfide gases to the absolute minimum.

■ We reserve the right to modify without notice the materials, internal components, and other parts to improve product quality.

■ Handling precautions

When handling the switches, be careful not to drop them on the floor since this may damage them.

■ Others

1) Failure modes of switches include short-circuiting, open circuiting and temperature rises. If this switch is to be used in equipment where safety is a prime consideration, examine the possible effects of these failures on the equipment concerned, and ensure safety by providing protection circuits or protection devices. In terms of the systems involved, make provision for redundancy in the design and take steps to achieve safety design.
2) The ambient operating temperature (and humidity) range quoted is the range in which the switch can be operated on a continuous basis: it does not mean that using the switch within the rating guarantees the durability performance and environment withstanding performance of the switch. For details on the performance guarantee, check the specifications of each product concerned.

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Shape	Classification	Pretravel (PT)	Overtravel (OT)	Operating Force (OF)	Vibration Shock	Features
	Pin plunger	Small	Small	Large	Outstanding	Appropriate for linear short-stroke action. Pin plunger acts directly on snap action mechanism, enabling high-precision positioning. Amount of movement after operation is smallest among all of the actuators, however, so reliable stopper is required.
	Hinge lever	Large	Medium	Smal	Possible	Little force required for operation. Appropriate for use with low-speed cams and dogs; has large stroke. Lever available in various shapes to fit operating unit.
	Simulated roller lever	Large	Medium	Smal	Possible	Tip of hinge lever is bent into a semi-circle, enabling use as a simple roller type.
	Leaf lever	Large	Large	Small	Excellent	Play in lever is used to assure maximum stroke. Construction provides for space where lever is attached, for outstanding resistance to freezing.
	Hinge roller lever	Large	Medium	Small	Possible	This is a hinge lever with a roller, and can be used with high-speed cams and dogs. The force required for pin plunger action is lighter than that of the lever, and the stroke is longer.

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