

**SUBMINIATURE SWITCHES**  
(Contact gap: more than 1mm type)

**AV3□□□G (FS) SWITCHES**



**FEATURES**

- Conforming to IEC60950-1
- Contact gap of greater than 1mm
- UL/CSA/VDE/SEMKO under application

**TYPICAL APPLICATIONS**

- Office equipment (printers, copiers)

RoHS compliant

**ORDERING INFORMATION**

Ex. AV 3 2 5 5 G 3

Type of switch	Version	Terminals	Actuators	Operating force by pin plunger, max.	Contact gap	Agency standard
FS switch	3: Standard	2: Self-standing solder terminal without guard 4: Self-standing PC terminal 8: .110 Quick-connect 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	G: More than 1 mm type	3: UL/CSA/TÜV/SEMKO

**PRODUCT TYPES**

Actuator	Operating force Max.	Solder terminal	PC board terminal	.110 Quick- connect terminal
		Without guard		
Pin plunger	1.47 N	AV3205G3	AV3405G3	AV3805G3
Short hinge lever	0.59 N	AV3215G3	AV3415G3	AV3815G3
Hinge lever	0.54 N	AV3225G3	AV3425G3	AV3825G3
Long hinge lever	0.44 N	AV3235G3	AV3435G3	AV3835G3
Simulated roller lever	0.54 N	AV3245G3	AV3445G3	AV3845G3
Roller lever	0.59 N	AV3255G3	AV3455G3	AV3855G3

Remark: Unless you request otherwise, the switch comes with a stamp indicating its conformance to standards.

**SPECIFICATIONS**

**1. Contact rating**

- Silver alloy contact type

Voltage	Resistive road (cos φ ≅ 1)
30 V DC	3 A

**2. Characteristics**

Item	Characteristics	
Expected life	Mechanical (O.T.: Specified value)	Min. $5 \times 10^5$ (at 60cpm)
	Electrical (O.T. max.)	Min. $10^4$ (at 20cpm)
Breakdown voltage	Between non-continuous terminals	1,000 Vrms for 1 min. (at 10mA)
	Between each terminal and other exposed metal parts	2,000 Vrms for 1 min. (at 10mA)
	Between each terminal and ground	2,000 Vrms for 1 min. (at 10mA)
Insulation resistance	Min. $100M\Omega$ (at 500 V DC)	
Contact resistance (Initial)	Max. $50m\Omega$ (by voltage drop 6 to 8 V DC 1A)	
Vibration resistance	10 to 55 Hz at single amplitude of 0.75 mm (Contact opening: Max. 1 msec.)	
Shock resistance	Pin plunger type	$294m/s^2$ (Contact distance: Max. 1 msec.)
	Lever type	$147m/s^2$ (Contact distance: Max. 1 msec.)
Allowable operation speed (No load)	0.1 to 1,000 mm/s	
Max. switching frequency (No load)	300 cpm.	
Ambient temperature	$-25^\circ\text{C}$ to $+85^\circ\text{C}$ (Not freezing below $0^\circ\text{C}$ )	

Remark: Test conditions are in accordance with JIS C 4505.

**3. Operating characteristics**

Actuator	Operating force, Max.	Release force, Min.	Pretravel, Max. mm	Movement differential, Max. mm	Overtravel, Min. mm	Operating position, mm
Pin plunger	1.47 N	0.064 N	0.7	0.2	0.3	$8.4 \pm 0.3$
Short hinge lever	0.59 N	0.015 N	2.5	0.8	0.6	$8.8 \pm 0.8$
Hinge lever	0.54 N	0.013 N	2.8	1.0	0.8	$8.8 \pm 0.8$
Long hinge lever	0.44 N	0.0098 N	3.5	1.2	1.2	$8.8 \pm 1.2$
Simulated roller lever	0.54 N	0.013 N	2.8	1.0	0.8	$11.65 \pm 0.8$
Roller lever	0.59 N	0.015 N	2.5	0.8	0.6	$14.5 \pm 0.8$

**DIMENSIONS**

The same size as the standard FS/FS-T switches.

Please refer to "FS/FS-T switches pages" or our web site.

URL: <http://industrial.panasonic.com/ac/e/>

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