

UNSEALED SNAP ACTION



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MODEL	A	D2F	Micro-voltage/current load
Description	General Purpose Snap Action Switch High capacity switch handles loads with large inrush currents.	Subminiature Snap Action Switch Switches microvoltage / microcurrent loads.	
Contact Form	SPDT	SPDT	
Service Life	1,000,000 ops. min. (at rated OT load)	1,000,000 ops. min.	
Mechanical	500,000 ops. min. (at rated OT load)	30,000 ops. min. (OT: full stroke)	
Electrical			
Mounting Pitch	25.4 mm (1 in)	6.5 mm (0.26 in)	
Type of Actuator	Pin plunger, Short spring plunger, Panel mount plunger, Panel mount roller plunger, Panel mount cross roller, Short hinge lever, Hinge lever, Short hinge roller lever, Hinge roller lever	Pin plunger, Hinge lever, Simulated roller lever, Roller lever	
Terminal Choices	Solder, Screw, or Quick connect (#250)	PCB (straight, self-supporting, right and left angle), Solder	
Approved Standards	UL, CSA, SEV	UL, CSA	
Contact Ratings			
Resistive Load	20 A, 250 VAC	0.1 A, 30 VDC	
Operating Force (OF)*	400 to 625 g	75 g	

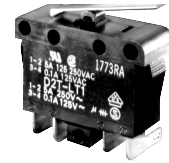
*Note: These values are for pin plunger type only



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D2F Standard**Subminiature Snap Action Switch**

Long lifespan assured by high-precision dual spring reverse-action mechanism.

SPDT

1,000,000 ops. min.
30,000 ops. min. (OT: full stroke)

6.5 mm (0.26 in)

Pin plunger, Hinge lever, Simulated
roller lever, Roller lever

PCB (straight, self-supporting, right and
left angle), Solder

UL, CSA

3 A, 125 VAC

150 g

D2F Low-force**Subminiature Snap Action Switch**

Long lifespan assured by high-precision
dual spring reverse-action mechanism.

SPDT

1,000,000 ops. min.
30,000 ops. min. (OT: full stroke)

6.5 mm (0.26 in)

Pin plunger, Hinge lever, Simulated
roller lever, Roller lever

PCB (straight, self-supporting, right and
left angle), Solder

UL, CSA

1 A, 125 VAC

75 g

D2T**Miniature Snap Action Switch**

Incorporates circuits for power and
low-level loads.

Refer to "CONTACT FORM" section of D2T data
sheet for more information

100,000 ops. min. (at full OT value)
100,000 ops. min. (at rated OT value)

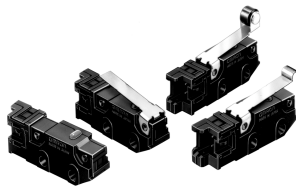
—

Pin plunger, Hinge lever

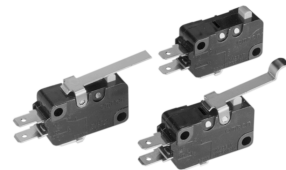
PCB (angled, straight)

UL, CSA, VDE, SEMKO

5 A, 125/250 VAC (between terminals 1 & 2)
0.1 A, 125 VAC (between terminals 3 & 4)
330 g



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MODEL	D3M	D3V
Description	Subminiature Snap Action Switch External actuators. Easy wiring through connector terminals.	Miniature Snap Action Switch Environmentally friendly-free of beryllium copper. Maximum operating temperature of 105°C. Internally or externally fitted levers.
Contact Form	SPST-NC, SPST-NO	SPDT, SPST-NC, SPST-NO
Service Life Mechanical Electrical	500,000 ops. min. (See Note 1) 200,000 ops. min. (See Note 2)	10,000,000 ops. min. D3V-16: 100,000 ops. min. D3V-11: 200,000 ops. min. D3V-6: 500,000 ops. min.
Mounting Pitch	9.5 mm (0.37 in) (See Note 3)	—
Type of Actuator	Pin plunger, Hinge lever, Hinge roller lever, Simulated roller lever	Pin plunger, Short hinge lever, Hinge lever, Long hinge lever, Simulated roller lever, Short hinge roller lever, Hinge roller lever
Terminal Choices	Dipole XA connector	Solder/Quick connect (#187) Quick connect (#187) Quick connect (#250)
Approved Standards	UL, CSA	UL, CSA, VDE, SEMKO
Contact Ratings Resistive Load	0.1 A, 30 VDC	16/11/6 A, 125/250 VAC
Operating Force (OF)*	153 g	

*Note: These values are for pin plunger type only

Note 1: Number of operations at full-stroke operating speed of 10 mm/s at a frequency of 60 operations/min.

2: Number of operations at full-stroke operating speed of 10 mm/s at a frequency of 30 operations/min.

3: Refer to illustrations in "MOUNTING HOLE DIMENSIONS FOR ALL MODELS" section of data sheet.



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SS-01

Subminiature Snap Action Switch
Switches microcurrent/microvoltage loads.

SS-5

Subminiature Snap Action Switch
Split double spring mechanism for a long life of up to 30 million operations.

SS-10

Subminiature Snap Action Switch
Split double spring mechanism for a long life of up to 10 million operations.

SPDT (SPST-NC, SPST-NO per request)

SPDT (SPST-NC, SPST-NO per request)

SPDT (SPST-NC, SPST-NO per request)

30,000,000 ops. min. (at rated OT value)
200,000 ops. min. (at rated load)

30,000,000 ops. min. (at rated OT value)
200,000 ops. min. (at rated load)

10,000,000 ops. min. (at rated OT value)
50,000 ops. min. (at rated load)

9.5 mm (0.37 in)

9.5 mm (0.37 in)

9.5 mm (0.37 in)

Pin plunger, Hinge lever, Simulated roller lever, Formed hinge lever, Hinge roller lever

Pin plunger, Hinge lever, Simulated roller lever, Formed hinge lever, Hinge roller lever

Pin plunger, Hinge lever, Simulated roller lever, Formed hinge lever, Hinge roller lever

PCB (straight, parallel left, parallel right)
Solder
Quick connect (#110)

PCB (straight, parallel left, parallel right)
Solder
Quick connect (#110)

PCB (straight)
Solder
Quick connect (#110)

UL, CSA, VDE, SEMKO, SEV

UL, CSA, VDE, SEMKO, SEV

UL, CSA, VDE, SEMKO, SEV

0.1 A, 125 VAC

5 A, 125 VAC

10.1 A, 125/250 VAC

25 g, 50 g, or 150 g

50 g or 150 g

150 g



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MODEL	V-15G	V-10G
Description	Miniature Snap Action Switch Industry standard design with 15 A rating.	Miniature Snap Action Switch Industry standard design with 10 A rating.
Contact Form	SPDT, SPST-NC, SPST-NO	SPDT, SPST-NC, SPST-NO
Service Life		
Mechanical	50,000,000 ops. min.	50,000,000 ops. min.
Electrical	100,000 ops. min.	300,000 ops. min.
Mounting Pitch	10.3 x 22.2 mm (0.41 x 0.87 in)	10.3 x 22.2 mm (0.41 x 0.87 in)
Type of Actuator	Pin plunger, Short hinge lever, Hinge lever, Long hinge lever, Simulated roller lever, Short hinge roller lever, Hinge roller lever	Pin plunger, Short hinge lever, Hinge lever, Long hinge lever, Simulated roller lever, Short hinge roller lever, Hinge roller lever
Terminal Choices	Solder/Quick connect (#187) Quick connect (#187), Quick connect (#250), Short solder, Screw	Solder/Quick connect (#187), Quick connect (#187), Quick connect (#250), Short solder, Screw
Approved Standards	UL, CSA, SEV, VDE, SEMKO, DENMARK	UL, CSA, SEV, VDE, SEMKO, DENMARK
Contact Ratings		
Resistive Load	15 A, 250 VAC	10 A, 250 VAC
Operating Force (OF)*	100 g, 200 g, or 400 g	100 g or 200 g

*Note: These values are for pin plunger type only



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VX-5**Miniature Snap Action Switch**

Low force, high contact reliability.

VX-0.1**Miniature Snap Action Switch**

Switches microcurrent/microvoltage loads.

X**General Purpose Snap Action Switch**

Built-in permanent magnet effectively extinguishes the arc.

SPDT

SPDT

SPDT

50,000,000 ops. min.
500,000 ops. min.10,000,000 ops. min.
1,000,000 ops. min.1,000,000 ops. min. (at rated OT value)
100,000 ops. min. (at rated load)

10.3 x 22.2 mm (0.41 x 0.87 in)

10.3 x 22.2 mm (0.41 x 0.87 in)

25.4 mm (1 in)

Pin plunger, Short hinge lever, Hinge lever, Long hinge lever, Simulated roller lever, Short hinge roller lever, Hinge roller lever

Pin plunger, Short hinge lever, Hinge lever, Long hinge lever, Simulated roller lever, Short hinge roller lever, Hinge roller lever

Pin plunger, Spring plunger, Short spring plunger, Panel mount plunger, Panel mount roller plunger, Panel mount cross roller plunger, Leaf spring, Short hinge lever, Hinge lever, Low force hinge lever, Short hinge roller lever, Hinge roller lever, Reverse action hinge lever, Reverse action short hinge roller lever, Reverse action hinge roller lever

Solder/Quick connect (#187)
Quick connect (#187)Solder/Quick connect (#187)
Quick connect (#187)Solder, Screw, or
Quick connect (#250)

UL, CSA, VDE

UL, CSA, VDE

UL, CSA, SEV

5 A, 250 VAC

0.1 A, 125 VAC

10 A, 125 VDC

25 g or 50 g

25 g or 50 g

510 g



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MODEL	Z-15G	Z-15H
Description	General Purpose Snap Action Switch High precision 15 A switch available in a variety of styles.	General Purpose Snap Action Switch High precision 15 A switch with 0.25 mm contact gap.
Contact Form	SPDT	SPDT
Service Life Mechanical Electrical	Refer to "SPECIFICATIONS" section of data sheet for detailed service life information	Refer to "SPECIFICATIONS" section of data sheet for detailed service life information
Mounting Pitch	25.4 mm (1 in)	25.4 mm (1 in)
Type of Actuator	Pin plunger, Slim spring plunger, Short spring plunger, Panel mount plunger, Panel mount roller plunger, Panel mount cross roller plunger, Hinge lever, Low force hinge lever, Short hinge roller lever, Hinge roller lever, Unidirectional short hinge roller lever, Spring plunger, Flexible rod	Pin plunger, Low force hinge lever, Low force wire hinge lever, Short hinge roller lever, Panel mount plunger, Flexible rod
Terminal Choices	Solder, Screw	Solder, Screw
Approved Standards	UL, CSA, SEV	UL, CSA, SEV
Contact Ratings Resistive Load	15 A, 125/250 VAC	15 A, 125/250 VAC
Operating Force (OF)*	250 to 350 g	200 to 280 g

*Note: These values are for pin plunger type only

NOTE: DIMENSIONS ARE SHOWN IN MILLIMETERS. To convert millimeters to inches divide by 25.4.

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