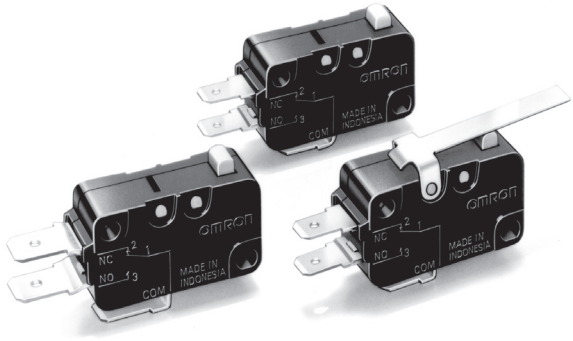
Miniature Basic Switch
D3V

Reliable Basic Switch with External Lever

- Available by 0.1 A, 6 A, 11 A, 16 A and 21 A models, all with self-cleaning contacts. 0.1 A utilizes gold alloy crossbar contacts for high reliability at low loads.
- Available with internally or externally fitted levers, and 2 fixing positions for external levers.
- Conforms to EN61058-1 UL1054.
- High Temperature models rated up to 200°C (D3V-6, D3V-01) and 155°C (D3V-11) are available.
- RoHS Compliant.



Ordering Information

■ Model Number Legend

D3V - □ □ □ □ - □ □ □ - □ - □ - □

1 2 3 4 5 6 7 8 9 10

1. Ratings
- 21: 20 (4) A at 250 VAC
- 16: 16 (3) A at 250 VAC
- 11: 11 (3) A at 250 VAC
- 6: 6 (2) A at 250 VAC
- 01: 0.1 A at 125 VAC

2. Contact Gap
- None: 1 mm (F gap)
- G: 0.5 mm (G gap)

3. Actuator
- None: Pin plunger
- 1: Short hinge lever
- 2: Hinge lever
- 3: Long hinge lever
- 4: Simulated roller lever
- 5: Short hinge roller lever
- 6: Hinge roller lever

4. Hinge Position
- None: Internal / Far from Plunger
- M: External / Far from Plunger
- K: External / Near Plunger

5. Contact Form
- 1: SPDT
- 2: SPST-NC
- 3: SPST-NO

6. Terminals
- A: Solder terminals
- C2: Quick-connect terminal (#187)
- C: Quick-connect terminal (#250)
- C6: RAST5 terminal (#250)

7. Maximum Operating Force
- 5: 200 gf
- 4A: 125 gf
- 4: 100 gf
- 3: 50 gf
- 2: 25 gf

Note: These OF values are for the pin plunger models.

8. Enclosure Material
- None: Standard
- T: High Temperature
  200°C for D3V-6, D3V-01
  155°C for D3V-11
- W2: EN60695-2-11/-12 Approved
  (Glow wire flammability test method with PTI = 250)

9. Mounting Hole Size
- None: 3.1 mm
- K: 2.9 mm

10. Special Code
- None: Standard
- H: High Temperature (125°C)
- E: Special Rating: 21 (8) A
  (D3V-21, only)

■ Available Combinations

Model		D3V-21	D3V-16		D3V-11					D3V-6				D3V-01	
Rated current		21 A	16 A		11 A					6 A				0.1 A	
OF		125 gf	200 gf	100 gf	200 gf		100 gf		50 gf	200 gf	100 gf		50 gf	50 gf	25 gf
Heat resistance	Contact gap / Terminals	G 0.5 mm	F/G 1 mm or 0.5 mm	F/G 1 mm or 0.5 mm	F 1 mm	G 0.5 mm	F 1 mm	G 0.5 mm	G 0.5 mm	F/G 1 mm or 0.5 mm	F 1 mm	G 0.5 mm	G 0.5 mm	F/G 1 mm or 0.5 mm	
Standard (85°C)	#187													❍	❍
	#250	❍												❍	❍
	RAST5													❍	❍
Standard (105°C)	#187		❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍		
	#250		❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍		
	RAST5								❍				❍		
EN60695-2-11 approved W2: 85°C	#187													❍	❍
	#250													❍	❍
														❍	❍
EN60695-2-11 approved W2: 105°C	#187		❍												
	#250		❍		❍		❍				❍		❍		
	RAST5								❍						
High temperature H: 125°C	#187		❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍		
	#250		❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍		
	RAST5														
High temperature T: 155°C	#187				❍	❍	❍	❍	❍						
	#250				❍	❍	❍	❍	❍						
	RAST5								❍						
High temperature T: 200°C	#187									❍	❍	❍	❍	❍	❍
	#250									❍	❍	❍	❍	❍	❍
	RAST5												❍	❍	

Note: 1. ❍: Available model.

2. Consult OMRON for specific models with standard approval.

■ List of Models

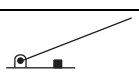
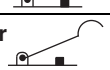
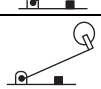
21 A (OF: 125 gf)

Actuator	Hinge position (far from plunger)	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger	---	D3V-21G-1□4A-D-Ñ	D3V-21G-2□4A-D-Ñ	D3V-21G-3□4A-D-Ñ
Short hinge lever	Internal	D3V-21G1-1□4A-D-Ñ	D3V-21G1-2□4A-D-Ñ	D3V-21G1-3□4A-D-Ñ
	External (M)	D3V-21G1M-1□4A-D-Ñ	D3V-21G1M-2□4A-D-Ñ	D3V-21G1M-3□4A-D-Ñ
Hinge lever	Internal	D3V-21G2-1□4A-D-Ñ	D3V-21G2-2□4A-D-Ñ	D3V-21G2-3□4A-D-Ñ
	External (M)	D3V-21G2M-1□4A-D-Ñ	D3V-21G2M-2□4A-D-Ñ	D3V-21G2M-3□4A-D-Ñ
Long hinge lever	Internal	D3V-21G3-1□4A-D-Ñ	D3V-21G3-2□4A-D-Ñ	D3V-21G3-3□4A-D-Ñ
	External (M)	D3V-21G3M-1□4A-D-Ñ	D3V-21G3M-2□4A-D-Ñ	D3V-21G3M-3□4A-D-Ñ
Simulated roller lever	Internal	D3V-21G4-1□4A-D-Ñ	D3V-21G4-2□4A-D-Ñ	D3V-21G4-3□4A-D-Ñ
	External (M)	D3V-21G4M-1□4A-D-Ñ	D3V-21G4M-2□4A-D-Ñ	D3V-21G4M-3□4A-D-Ñ
Short hinge roller lever	Internal	D3V-21G5-1□4A-D-Ñ	D3V-21G5-2□4A-D-Ñ	D3V-21G5-3□4A-D-Ñ
	External (M)	D3V-21G5M-1□4A-D-Ñ	D3V-21G5M-2□4A-D-Ñ	D3V-21G5M-3□4A-D-Ñ
Hinge roller lever	Internal	D3V-21G6-1□4A-D-Ñ	D3V-21G6-2□4A-D-Ñ	D3V-21G6-3□4A-D-Ñ
	External (M)	D3V-21G6M-1□4A-D-Ñ	D3V-21G6M-2□4A-D-Ñ	D3V-21G6M-3□4A-D-Ñ

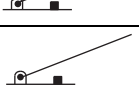
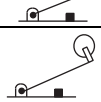
16 A (OF: 200 gf)

Actuator	Hinge position (far from plunger)	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger	---	D3V-16-1□5-●-D-Ñ	D3V-16-2□5-●-D-Ñ	D3V-16-3□5-●-D-Ñ
Short hinge lever	Internal	D3V-161-1□5-●-D-Ñ	D3V-161-2□5-●-D-Ñ	D3V-161-3□5-●-D-Ñ
	External (M)	D3V-161M-1□5-●-D-Ñ	D3V-161M-2□5-●-D-Ñ	D3V-161M-3□5-●-D-Ñ
Hinge lever	Internal	D3V-162-1□5-●-D-Ñ	D3V-162-2□5-●-D-Ñ	D3V-162-3□5-●-D-Ñ
	External (M)	D3V-162M-1□5-●-D-Ñ	D3V-162M-2□5-●-D-Ñ	D3V-162M-3□5-●-D-Ñ
Long hinge lever	Internal	D3V-163-1□5-●-D-Ñ	D3V-163-2□5-●-D-Ñ	D3V-163-3□5-●-D-Ñ
	External (M)	D3V-163M-1□5-●-D-Ñ	D3V-163M-2□5-●-D-Ñ	D3V-163M-3□5-●-D-Ñ
Simulated roller lever	Internal	D3V-164-1□5-●-D-Ñ	D3V-164-2□5-●-D-Ñ	D3V-164-3□5-●-D-Ñ
	External (M)	D3V-164M-1□5-●-D-Ñ	D3V-164M-2□5-●-D-Ñ	D3V-164M-3□5-●-D-Ñ
Short hinge roller lever	Internal	D3V-165-1□5-●-D-Ñ	D3V-165-2□5-●-D-Ñ	D3V-165-3□5-●-D-Ñ
	External (M)	D3V-165M-1□5-●-D-Ñ	D3V-165M-2□5-●-D-Ñ	D3V-165M-3□5-●-D-Ñ
Hinge roller lever	Internal	D3V-166-1□5-●-D-Ñ	D3V-166-2□5-●-D-Ñ	D3V-166-3□5-●-D-Ñ
	External (M)	D3V-166M-1□5-●-D-Ñ	D3V-166M-2□5-●-D-Ñ	D3V-166M-3□5-●-D-Ñ

16 A (OF: 100 gf)

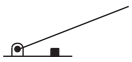
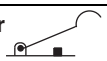
Actuator	Hinge position (far from plunger)	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger	---	D3V-16-1□4-●-D-Ñ	D3V-16-2□4-●-D-Ñ	D3V-16-3□4-●-D-Ñ
Short hinge lever	Internal	D3V-161-1□4-●-D-Ñ	D3V-161-2□4-●-D-Ñ	D3V-161-3□4-●-D-Ñ
	External (M)	D3V-161M-1□4-●-D-Ñ	D3V-161M-2□4-●-D-Ñ	D3V-161M-3□4-●-D-Ñ
Hinge lever	Internal	D3V-162-1□4-●-D-Ñ	D3V-162-2□4-●-D-Ñ	D3V-162-3□4-●-D-Ñ
	External (M)	D3V-162M-1□4-●-D-Ñ	D3V-162M-2□4-●-D-Ñ	D3V-162M-3□4-●-D-Ñ
Long hinge lever 	Internal	D3V-163-1□4-●-D-Ñ	D3V-163-2□4-●-D-Ñ	D3V-163-3□4-●-D-Ñ
	External (M)	D3V-163M-1□4-●-D-Ñ	D3V-163M-2□4-●-D-Ñ	D3V-163M-3□4-●-D-Ñ
Simulated roller lever 	Internal	D3V-164-1□4-●-D-Ñ	D3V-164-2□4-●-D-Ñ	D3V-164-3□4-●-D-Ñ
	External (M)	D3V-164M-1□4-●-D-Ñ	D3V-164M-2□4-●-D-Ñ	D3V-164M-3□4-●-D-Ñ
Short hinge roller lever	Internal	D3V-165-1□4-●-D-Ñ	D3V-165-2□4-●-D-Ñ	D3V-165-3□4-●-D-Ñ
	External (M)	D3V-165M-1□4-●-D-Ñ	D3V-165M-2□4-●-D-Ñ	D3V-165M-3□4-●-D-Ñ
Hinge roller lever 	Internal	D3V-166-1□4-●-D-Ñ	D3V-166-2□4-●-D-Ñ	D3V-166-3□4-●-D-Ñ
	External (M)	D3V-166M-1□4-●-D-Ñ	D3V-166M-2□4-●-D-Ñ	D3V-166M-3□4-●-D-Ñ

11 A (OF: 200 gf)

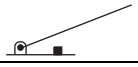
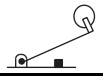
Actuator	Hinge position (far from plunger)	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger	---	D3V-11-1□5-●-D-Ñ	D3V-11-2□5-●-D-Ñ	D3V-11-3□5-●-D-Ñ
Short hinge lever	Internal	D3V-111-1□5-●-D-Ñ	D3V-111-2□5-●-D-Ñ	D3V-111-3□5-●-D-Ñ
	External (M)	D3V-111M-1□5-●-D-Ñ	D3V-111M-2□5-●-D-Ñ	D3V-111M-3□5-●-D-Ñ
Hinge lever	Internal	D3V-112-1□5-●-D-Ñ	D3V-112-2□5-●-D-Ñ	D3V-112-3□5-●-D-Ñ
	External (M)	D3V-112M-1□5-●-D-Ñ	D3V-112M-2□5-●-D-Ñ	D3V-112M-3□5-●-D-Ñ
Long hinge lever 	Internal	D3V-113-1□5-●-D-Ñ	D3V-113-2□5-●-D-Ñ	D3V-113-3□5-●-D-Ñ
	External (M)	D3V-113M-1□5-●-D-Ñ	D3V-113M-2□5-●-D-Ñ	D3V-113M-3□5-●-D-Ñ
Simulated roller lever	Internal	D3V-114-1□5-●-D-Ñ	D3V-114-2□5-●-D-Ñ	D3V-114-3□5-●-D-Ñ
	External (M)	D3V-114M-1□5-●-D-Ñ	D3V-114M-2□5-●-D-Ñ	D3V-114M-3□5-●-D-Ñ
Short hinge roller lever	Internal	D3V-115-1□5-●-D-Ñ	D3V-115-2□5-●-D-Ñ	D3V-115-3□5-●-D-Ñ
	External (M)	D3V-115M-1□5-●-D-Ñ	D3V-115M-2□5-●-D-Ñ	D3V-115M-3□5-●-D-Ñ
Hinge roller lever 	Internal	D3V-116-1□5-●-D-Ñ	D3V-116-2□5-●-D-Ñ	D3V-116-3□5-●-D-Ñ
	External (M)	D3V-116M-1□5-●-D-Ñ	D3V-116M-2□5-●-D-Ñ	D3V-116M-3□5-●-D-Ñ

- The □ in the model number is for the terminal code.
  - A: Solder/quick-connect terminals (#187)
  - C2: Quick-connect terminals (#187)
  - C: Quick-connect terminals (#250)
  - C6 RAST5 terminals (#250)
- The ● in the model number is for the enclosure material
  - None: Standard
  - T: High Temperature (200°C for D3V-6/-01, 155°C for D3V-11)
  - W2: EN60695-2-11/-12 conformity with PTI=250
- The Δ in the model number is for the mounting hole size.
  - None: 3.1 mm
  - K: 2.9 mm
- The ∇ in the model number is for the special code
  - None: Standard
  - H: High Temperature (125°C)
  - E: Special rating of 21A (8)A (for D3V-21 only)

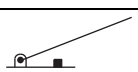
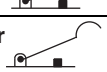
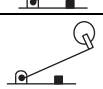
11 A (OF: 100 gf)

Actuator	Hinge position (far from plunger)	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger	---	D3V-11-1□4-●-D-Ñ	D3V-11-2□4-●-D-Ñ	D3V-11-3□4-●-D-Ñ
Short hinge lever	Internal	D3V-111-1□4-●-D-Ñ	D3V-111-2□4-●-D-Ñ	D3V-111-3□4-●-D-Ñ
	External (M)	D3V-111M-1□4-●-D-Ñ	D3V-111M-2□4-●-D-Ñ	D3V-111M-3□4-●-D-Ñ
Hinge lever	Internal	D3V-112-1□4-●-D-Ñ	D3V-112-2□4-●-D-Ñ	D3V-112-3□4-●-D-Ñ
	External (M)	D3V-112M-1□4-●-D-Ñ	D3V-112M-2□4-●-D-Ñ	D3V-112M-3□4-●-D-Ñ
Long hinge lever 	Internal	D3V-113-1□4-●-D-Ñ	D3V-113-2□4-●-D-Ñ	D3V-113-3□4-●-D-Ñ
	External (M)	D3V-113M-1□4-●-D-Ñ	D3V-113M-2□4-●-D-Ñ	D3V-113M-3□4-●-D-Ñ
Simulated roller lever 	Internal	D3V-114-1□4-●-D-Ñ	D3V-114-2□4-●-D-Ñ	D3V-114-3□4-●-D-Ñ
	External (M)	D3V-114M-1□4-●-D-Ñ	D3V-114M-2□4-●-D-Ñ	D3V-114M-3□4-●-D-Ñ
Short hinge roller lever	Internal	D3V-115-1□4-●-D-Ñ	D3V-115-2□4-●-D-Ñ	D3V-115-3□4-●-D-Ñ
	External (M)	D3V-115M-1□4-●-D-Ñ	D3V-115M-2□4-●-D-Ñ	D3V-115M-3□4-●-D-Ñ
Hinge roller lever	Internal	D3V-116-1□4-●-D-Ñ	D3V-116-2□4-●-D-Ñ	D3V-116-3□4-●-D-Ñ
	External (M)	D3V-116M-1□4-●-D-Ñ	D3V-116M-2□4-●-D-Ñ	D3V-116M-3□4-●-D-Ñ

11 A (OF: 50 gf)

Actuator	Hinge position (far from plunger)	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger	---	D3V-11G-1□3-●-D-Ñ	D3V-11G-2□3-●-D-Ñ	D3V-11G-3□3-●-D-Ñ
Short hinge lever	Internal	D3V-11G1-1□3-●-D-Ñ	D3V-11G1-2□3-●-D-Ñ	D3V-11G1-3□3-●-D-Ñ
	External (M)	D3V-11G1M-1□3-●-D-Ñ	D3V-11G1M-2□3-●-D-Ñ	D3V-11G1M-3□3-●-D-Ñ
Hinge lever	Internal	D3V-11G2-1□3-●-D-Ñ	D3V-11G2-2□3-●-D-Ñ	D3V-11G2-3□3-●-D-Ñ
	External (M)	D3V-11G2M-1□3-●-D-Ñ	D3V-11G2M-2□3-●-D-Ñ	D3V-11G2M-3□3-●-D-Ñ
Long hinge lever 	Internal	D3V-11G3-1□3-●-D-Ñ	D3V-11G3-2□3-●-D-Ñ	D3V-11G3-3□3-●-D-Ñ
	External (M)	D3V-11G3M-1□3-●-D-Ñ	D3V-11G3M-2□3-●-D-Ñ	D3V-11G3M-3□3-●-D-Ñ
Simulated roller lever	Internal	D3V-11G4-1□3-●-D-Ñ	D3V-11G4-2□3-●-D-Ñ	D3V-11G4-3□3-●-D-Ñ
	External (M)	D3V-11G4M-1□3-●-D-Ñ	D3V-11G4M-2□3-●-D-Ñ	D3V-11G4M-3□3-●-D-Ñ
Short hinge roller lever	Internal	D3V-11G5-1□3-●-D-Ñ	D3V-11G5-2□3-●-D-Ñ	D3V-11G5-3□3-●-D-Ñ
	External (M)	D3V-11G5M-1□3-●-D-Ñ	D3V-11G5M-2□3-●-D-Ñ	D3V-11G5M-3□3-●-D-Ñ
Hinge roller lever 	Internal	D3V-11G6-1□3-●-D-Ñ	D3V-11G6-2□3-●-D-Ñ	D3V-11G6-3□3-●-D-Ñ
	External (M)	D3V-11G6M-1□3-●-D-Ñ	D3V-11G6M-2□3-●-D-Ñ	D3V-11G6M-3□3-●-D-Ñ

6 A (OF: 100 gf)

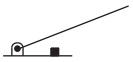
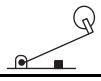
Actuator	Hinge position (far from plunger)	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger	---	D3V-6-1□4-●-D-Ñ	D3V-6-2□4-●-D-Ñ	D3V-6-3□4-●-D-Ñ
Short hinge lever	Internal	D3V-61-1□4-●-D-Ñ	D3V-61-2□4-●-D-Ñ	D3V-61-3□4-●-D-Ñ
	External (M)	D3V-61M-1□4-●-D-Ñ	D3V-61M-2□4-●-D-Ñ	D3V-61M-3□4-●-D-Ñ
Hinge lever	Internal	D3V-62-1□4-●-D-Ñ	D3V-62-2□4-●-D-Ñ	D3V-62-3□4-●-D-Ñ
	External (M)	D3V-62M-1□4-●-D-Ñ	D3V-62M-2□4-●-D-Ñ	D3V-62M-3□4-●-D-Ñ
Long hinge lever 	Internal	D3V-63-1□4-●-D-Ñ	D3V-63-2□4-●-D-Ñ	D3V-63-3□4-●-D-Ñ
	External (M)	D3V-63M-1□4-●-D-Ñ	D3V-63M-2□4-●-D-Ñ	D3V-63M-3□4-●-D-Ñ
Simulated roller lever 	Internal	D3V-64-1□4-●-D-Ñ	D3V-64-2□4-●-D-Ñ	D3V-64-3□4-●-D-Ñ
	External (M)	D3V-64M-1□4-●-D-Ñ	D3V-64M-2□4-●-D-Ñ	D3V-64M-3□4-●-D-Ñ
Short hinge roller lever	Internal	D3V-65-1□4-●-D-Ñ	D3V-65-2□4-●-D-Ñ	D3V-65-3□4-●-D-Ñ
	External (M)	D3V-65M-1□4-●-D-Ñ	D3V-65M-2□4-●-D-Ñ	D3V-65M-3□4-●-D-Ñ
Hinge roller lever 	Internal	D3V-66-1□4-●-D-Ñ	D3V-66-2□4-●-D-Ñ	D3V-66-3□4-●-D-Ñ
	External (M)	D3V-66M-1□4-●-D-Ñ	D3V-66M-2□4-●-D-Ñ	D3V-66M-3□4-●-D-Ñ

- The □ in the model number is for the terminal code.
  - A: Solder/quick-connect terminals (#187)
  - C2: Quick-connect terminals (#187)
  - C: Quick-connect terminals (#250)
  - C6 RAST5 terminals (#250)
- The ● in the model number is for the enclosure material
  - None: Standard
  - T: High Temperature (200°C for D3V-6/-01, 155°C for D3V-11)
  - W2: EN60695-2-11/-12 conformity with PTI=250
- The Δ in the model number is for the mounting hole size.
  - None: 3.1 mm
  - K: 2.9 mm
- The ∇ in the model number is for the special code
  - None: Standard
  - H: High Temperature (125°C)
  - E: Special rating of 21A (8)A (for D3V-21 only)

6 A (OF: 50 gf)

Actuator	Hinge position (far from plunger)	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger	---	D3V-6G-1□3-●-D-Ñ	D3V-6G-2□3-●-D-Ñ	D3V-6G-3□3-●-D-Ñ
Short hinge lever	Internal	D3V-6G1-1□3-●-D-Ñ	D3V-6G1-2□3-●-D-Ñ	D3V-6G1-3□3-●-D-Ñ
	External (M)	D3V-6G1M-1□3-●-D-Ñ	D3V-6G1M-2□3-●-D-Ñ	D3V-6G1M-3□3-●-D-Ñ
Hinge lever	Internal	D3V-6G2-1□3-●-D-Ñ	D3V-6G2-2□3-●-D-Ñ	D3V-6G2-3□3-●-D-Ñ
	External (M)	D3V-6G2M-1□3-●-D-Ñ	D3V-6G2M-2□3-●-D-Ñ	D3V-6G2M-3□3-●-D-Ñ
Long hinge lever	Internal	D3V-6G3-1□3-●-D-Ñ	D3V-6G3-2□3-●-D-Ñ	D3V-6G3-3□3-●-D-Ñ
	External (M)	D3V-6G3M-1□3-●-D-Ñ	D3V-6G3M-2□3-●-D-Ñ	D3V-6G3M-3□3-●-D-Ñ
Simulated roller lever	Internal	D3V-6G4-1□3-●-D-Ñ	D3V-6G4-2□3-●-D-Ñ	D3V-6G4-3□3-●-D-Ñ
	External (M)	D3V-6G4M-1□3-●-D-Ñ	D3V-6G4M-2□3-●-D-Ñ	D3V-6G4M-3□3-●-D-Ñ
Short hinge roller lever	Internal	D3V-6G5-1□3-●-D-Ñ	D3V-6G5-2□3-●-D-Ñ	D3V-6G5-3□3-●-D-Ñ
	External (M)	D3V-6G5M-1□3-●-D-Ñ	D3V-6G5M-2□3-●-D-Ñ	D3V-6G5M-3□3-●-D-Ñ
Hinge roller lever	Internal	D3V-6G6-1□3-●-D-Ñ	D3V-6G6-2□3-●-D-Ñ	D3V-6G6-3□3-●-D-Ñ
	External (M)	D3V-6G6M-1□3-●-D-Ñ	D3V-6G6M-2□3-●-D-Ñ	D3V-6G6M-3□3-●-D-Ñ

01 A (OF: 50 gf)

Actuator	Hinge position (far from plunger)	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger	---	D3V-01-1□3-●-D-Ñ	D3V-01-2□3-●-D-Ñ	D3V-01-3□3-●-D-Ñ
Short hinge lever	Internal	D3V-011-1□3-●-D-Ñ	D3V-011-2□3-●-D-Ñ	D3V-011-3□3-●-D-Ñ
	External (M)	D3V-011M-1□3-●-D-Ñ	D3V-011M-2□3-●-D-Ñ	D3V-011M-3□3-●-D-Ñ
Hinge lever	Internal	D3V-012-1□3-●-D-Ñ	D3V-012-2□3-●-D-Ñ	D3V-012-3□3-●-D-Ñ
	External (M)	D3V-012M-1□3-●-D-Ñ	D3V-012M-2□3-●-D-Ñ	D3V-012M-3□3-●-D-Ñ
Long hinge lever 	Internal	D3V-013-1□3-●-D-Ñ	D3V-013-2□3-●-D-Ñ	D3V-013-3□3-●-D-Ñ
	External (M)	D3V-013M-1□3-●-D-Ñ	D3V-013M-2□3-●-D-Ñ	D3V-013M-3□3-●-D-Ñ
Simulated roller lever	Internal	D3V-014-1□3-●-D-Ñ	D3V-014-2□3-●-D-Ñ	D3V-014-3□3-●-D-Ñ
	External (M)	D3V-014M-1□3-●-D-Ñ	D3V-014M-2□3-●-D-Ñ	D3V-014M-3□3-●-D-Ñ
Short hinge roller lever	Internal	D3V-015-1□3-●-D-Ñ	D3V-015-2□3-●-D-Ñ	D3V-015-3□3-●-D-Ñ
	External (M)	D3V-015M-1□3-●-D-Ñ	D3V-015M-2□3-●-D-Ñ	D3V-015M-3□3-●-D-Ñ
Hinge roller lever 	Internal	D3V-016-1□3-●-D-Ñ	D3V-016-2□3-●-D-Ñ	D3V-016-3□3-●-D-Ñ
	External (M)	D3V-016M-1□3-●-D-Ñ	D3V-016M-2□3-●-D-Ñ	D3V-016M-3□3-●-D-Ñ

01 A (OF: 25 gf)

Actuator	Hinge position (far from plunger)	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger	---	D3V-01-1□2-●-D-Ñ	D3V-01-2□2-●-D-Ñ	D3V-01-3□2-●-D-Ñ

- The □ in the model number is for the terminal code.
  - A: Solder/quick-connect terminals (#187)
  - C2: Quick-connect terminals (#187)
  - C: Quick-connect terminals (#250)
  - C6 RAST5 terminals (#250)
- The ● in the model number is for the enclosure material
  - None: Standard
  - T: High Temperature (200°C for D3V-6/-01, 155°C for D3V-11)
  - W2: EN60695-2-11/-12 conformity with PTI=250
- The Δ in the model number is for the mounting hole size.
  - None: 3.1 mm
  - K: 2.9 mm
- The ∇ in the model number is for the special code
  - None: Standard
  - H: High Temperature (125°C)
  - E: Special rating of 21A (8)A (for D3V-21 only)

Specifications

■ Ratings

Type	Rated voltage	Non-inductive load				Inductive load			
		Resistive load		Lamp load		Inductive load		Motor load	
		NC	NO	NC	NO	NC	NO	NC	NO
D3V-21	250 VAC	21 A		3 A		12 A		4 A	
	8 VDC	21 A		5 A		12 A		7 A	
	30 VDC	14 A		5 A		12 A		5 A	
	125 VDC	0.6 A		0.1 A		0.6 A		0.1 A	
	250 VDC	0.3 A		0.05 A		0.3 A		0.05 A	
D3V-16	250 VAC	16 A		2 A		10 A		3 A	
	8 VDC	16 A		4 A		10 A		6 A	
	30 VDC	10 A		4 A		10 A		4 A	
	125 VDC	0.6 A		0.1 A		0.6 A		0.1 A	
	250 VDC	0.3 A		0.05 A		0.3 A		0.05 A	
D3V-11	250 VAC	11 A		1.5 A		6 A		2 A	
	8 VDC	11 A		3 A		6 A		3 A	
	30 VDC	6 A		3 A		6 A		3 A	
	125 VDC	0.6 A		0.1 A		0.6 A		0.1 A	
	250 VDC	0.3 A		0.05 A		0.3 A		0.05 A	
D3V-6	250 VAC	6 A		3 A		4 A		---	
	8 VDC	6 A		3 A		4 A		---	
	30 VDC	6 A		3 A		4 A			
	125 VDC	0.4 A		0.1 A		0.4 A			
	250 VDC	0.3 A		0.05 A		0.2 A			
D3V-01	125 VAC	0.1 A		---		---		---	
	8 VDC	0.1 A		---		---		---	
	30 VDC	0.1 A							

Note: 1. The above current values are the normal current values of models with a contact gap of 1 mm (gap F), which vary with the normal current values of models with a contact gap of 0.5 mm (gap G).

2. Inductive load has a power factor of 0.4 min. (AC) and a time constant of 7 ms max. (DC).

3. Lamp load has an inrush current of 10 times the steady-state current.

4. Motor load has an inrush current of 6 times the steady-state current.

5. The ratings values apply under the following test conditions: Ambient temperature: 20±2°C, Ambient humidity: 65±5%, Operating frequency: 30 operations/min

■ Approved Standards

UL1054 (File No. E41515)
CSA C22.2 No.55 (File No. LR21642)
(Only standard ratings are listed.)

Rated voltage	D3V-21G	D3V-16	D3V-16G	D3V-11	D3V-11G	D3V-6	D3V-6G	D3V-01
125 VAC	3/4 HP	16 A, 1/2 HP	16 A, 1/2 HP	11 A, 1/2 HP	11 A, 1/2 HP	6 A, 1/4 HP	6 A, 1/4 HP	0.1 A
250 VAC	20.1 A, 3/4 HP	16 A, 1/2 HP	16 A, 1/2 HP	11 A, 1/2 HP	11 A, 1/2 HP	6 A, 1/4 HP	6 A, 1/4 HP	---
125 VDC	---	0.6 A	0.1 A	0.6 A	0.1 A	---	---	---
250 VDC	---	0.3 A	---	0.3 A	---	---	---	---

EN 61058-1: 1992+A1: 1993 (License No. 119151L)

Rated voltage	D3V-21G	D3V-16	D3V-11	D3V-6	D3V-01
125 VAC	---	---	---	---	0.1 A
250 VAC	20 (4) A	16 (3) A	11 (3) A	6 (2) A	---
250 VAC	21 (8) A**				

Testing conditions: 50,000 operations, T85 (0°C to 85°C) for D3V-21/D3V-01, T105 (0°C to 105°C) for D3V-16/D3V-11/D3V-6 and T200 (0 to 200°C) for D3V-6/-01 with suffix "T", T155 (0 to 155°C) for D3V-11 with suffix "T".

**Testing conditions: 10,000 operations, T85 (0°C to 85°C)

EN 60695-2-11 Ed.2, EN 60695-2-12 Ed.2 - - Glow-wire flammability test methods

Rated voltage	D3V-16	D3V-11	D3V-6	D3V-01
125 VAC	---	---	---	0.1 A
250 VAC	16 (3) A	11 (3) A	6 (2) A	---

■ Characteristics

Operating speed	0.1 mm to 1 m/s (plunger models)
Operating frequency	Mechanical: 600 operations/min Electrical: 60 operations/min
Insulation resistance	100 MΩ min. (at 500 VDC)
Contact resistance	D3V-21: 50 mΩ max. D3V-16, D3V-11, D3V-6: 30 mΩ max. D3V-01, 50 gf versions: 50 mΩ max. 25 gf versions: 100 mΩ max.
Dielectric strength (see note 2)	1,000 VAC, 50/60 Hz for 1 min between terminals of the same polarity 2,000 VAC, 50/60 Hz for 1 min between current-carrying metal parts and ground, and between each terminal and non-current-carrying metal parts
Vibration resistance (see note 3)	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance (see note 3)	Destruction: 400 m/s^2 (approx. 40G) max. Malfunction: 100 m/s^2 (approx. 10G) max.
Life expectancy	Mechanical: 10,000,000 operations min. Electrical: D3V-21: 50,000 operations min. D3V-16: 100,000 operations min. D3V-11: 200,000 operations min. D3V-6, D3V-01: 500,000 operations min.
Degree of protection	IEC IP40
Degree of protection against electric shock	Class I
Proof tracking index (PTI)	250 (High Temperature type with suffix "-T": 175)
Ambient operating temperature	D3V-21: -25°C to 85°C with no icing D3V-16: -25°C to 105°C (High Temperature type "H": -25°C to 125°C) with no icing D3V-11: -25°C to 105°C (High Temperature types "H": -25°C to 125°C, "T": -25°C to 155°C) with no icing D3V-6: -25°C to 105°C (High Temperature types "H": -25°C to 125°C, "T": -25°C to 200°C) with no icing D3V-01: -25°C to 85°C (High Temperature type "T": -25°C to 200°C) with no icing
Ambient operating humidity	85% max. (for 5°C to 35°C)
Weight	Approx. 6.2 g (plunger models)

Note: 1. Data shown are of initial value.

2. The dielectric strength values shown in the table are for models with a Separator.

3. For plunger models, the above values apply for use at both the free position and total travel position. For lever models, they apply at the total travel position.

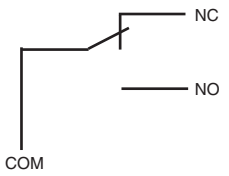
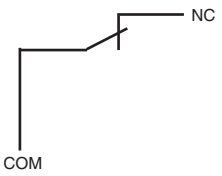
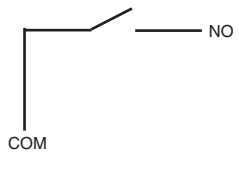
4. For testing conditions, contact your OMRON sales representative.

■ Contact Specifications

Item		D3V-21	D3V-16	D3V-11	D3V-6	D3V-01
Contact	Specification	Rivet				Crossbar
	Material	Silver alloy				Gold alloy
	Gap (standard value)	0.5 mm	1 mm (F gap type) or 0.5 mm (G gap type)			1.0 mm
Inrush current	NC	50 A max.	40 A max.	24 A max.	15 A max.	---
	NO					
Minimum applicable load		160 mA at 5 VDC				1 mA at 5 VDC

Note: Minimum applicable loads are indicated by N standard reference values. This value represents the failure rate at a 60% (λ_{60}) reliability level (JIS C5003). The equation $\lambda_{60}=0.5 \times 10^{-6}$ / operations indicates that a failure rate of 1/2,000,000 operations can be expected at a reliability level of 60%

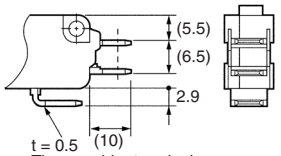
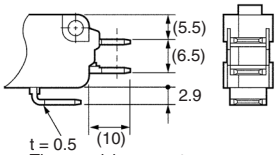
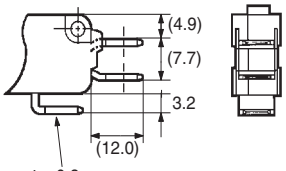
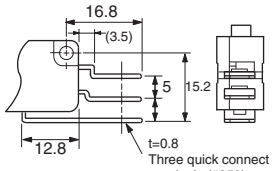
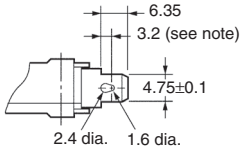
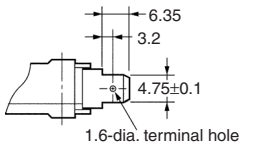
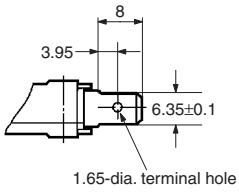
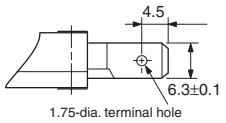
■ Contact Form

SPDT	SPST-NC	SPST-NO
		

Dimensions

■ Terminals

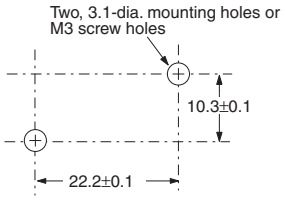
Note: Unless otherwise specified, all units are in millimeters and a tolerance of ±0.4 mm applies to all dimensions

Terminal type	Solder Terminal (A)	Quick-connect Terminal (#187) (C2)	Quick-connect Terminal (#250) (C)	Quick-connect RAST5 Terminals (#250)(C6)
COM				
Terminal dimensions	 **Note:** Indicates the length to the center of the 1.6-dia. holes			

Note: The table above is for the SPDT contact specifications. Two terminals will be available for SPST-NO or SPST-NC contact specifications. For terminal positions, refer to the above *Contact Form*.

■ Mounting Holes

All switches may be panel mounted using M3 mounting screws with plane washers or spring washers to securely mount the switch. Tighten the screws to a torque of 0.39 to 0.59 N·m.



■ Dimensions and Operating Characteristics

Note: 1. Unless otherwise specified, all units are in millimeters and a tolerance of ±0.4 mm applies to all dimensions

2. The following illustrations and drawings are for quick-connect terminals (#187) (terminals C2). D3V models also incorporate terminals A, C, and C6, which are omitted from the following drawings. Refer to *Terminals* section for the dimensions of these terminals.

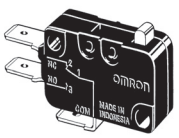
3. The □ in the model number is for the terminal code.

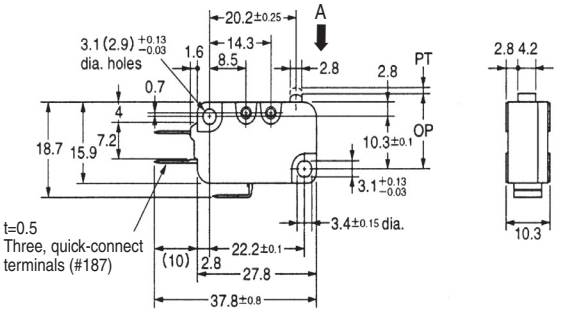
4. The Δ in the model number is for combinations of the enclosure material, the mounting hole size and the special code as indicated in the *Model Number Legend* and *Available Combinations* tables. The hole size in the following illustrations of models with a suffix "K" in the Δ is 2.9 mm.

5. The operating characteristics are for operation in the A direction (⬇).

Plunger Models

D3V-21G-1□4A-Δ
D3V-16-1□5-Δ
D3V-11-1□5-Δ
D3V-11-1□4-Δ
D3V-6-1□4-Δ
D3V-6G-1□3-Δ
D3V-01-1□2-Δ
D3V-01-1□3-Δ

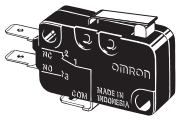


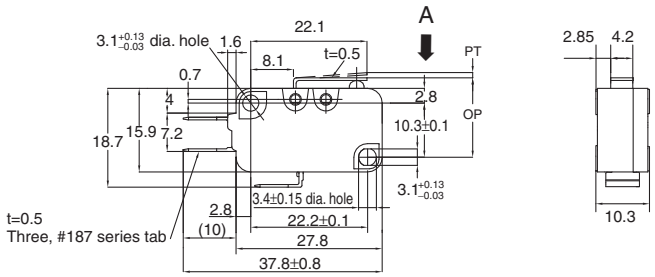


Model	D3V-21G-1□4A-Δ	D3V-16-1□5-Δ D3V-11-1□5-Δ	D3V-11-1□4-Δ D3V-6-1□4-Δ	D3V-6G-1□3-Δ	D3V-01-1□3-Δ	D3V-01-1□2-Δ
OF max. RF min.	125 gf 20 gf	200 gf 50 gf	100 gf 15 gf	50 gf 5 gf	50 gf 5 gf	25 gf 3 gf
PT max. OT min. MD max.	1.2 mm 1.0 mm 0.3 mm	1.2 mm 1.0 mm 0.4 mm (F gap type) or 0.3 mm (G gap type)			1.2 mm 1.0 mm 0.4 mm	
OP	14.7±0.4 mm					

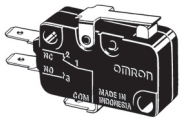
Short Hinge Lever Models

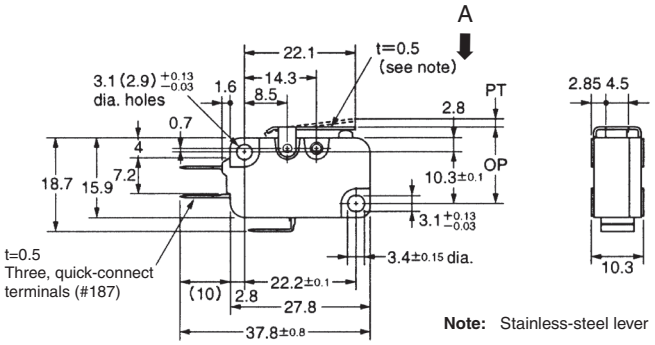
D3V-21G1-1□4A-Δ
D3V-161-1□5-Δ
D3V-111-1□5-Δ
D3V-111-1□4-Δ
D3V-61-1□4-Δ
D3V-6G1-1□3-Δ
D3V-011-1□3-Δ





D3V-21G1M-1□4A-Δ
D3V-161M-1□5-Δ
D3V-111M-1□5-Δ
D3V-111M-1□4-Δ
D3V-61M-1□4-Δ
D3V-6G1M-1□3-Δ
D3V-011M-1□3-Δ

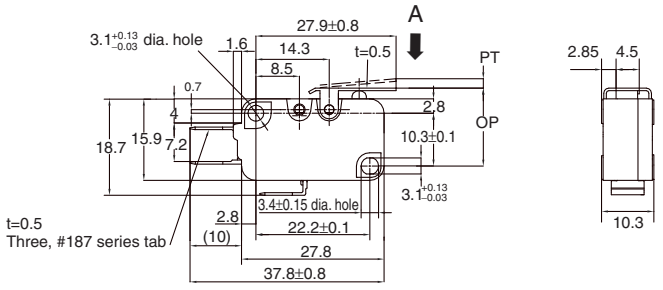




Note: Stainless-steel lever

Model	D3V-21G1(M)-1□4A-Δ	D3V-161(M)-1□5-Δ D3V-111(M)-1□5-Δ	D3V-111(M)-1□4-Δ D3V-61(M)-1□4-Δ	D3V-6G1(M)-1□3-Δ	D3V-011(M)-1□3-Δ
OF max. RF min.	125 gf 20 gf	200 gf 50 gf	100 gf 15 gf	50 gf 5 gf	
PT max. OT min. MD max.	1.6 mm 0.8 mm 0.5 mm	1.6 mm 0.8 mm 0.6 mm (F gap type) or 0.5 mm (G gap type)			1.6 mm 0.8 mm 0.6 mm
OP	15.2 ± 0.5 mm				

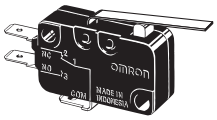
D3V-21G1K-1□4A-Δ
D3V-161K-1□5-Δ
D3V-111K-1□5-Δ
D3V-111K-1□4-Δ
D3V-61K-1□4-Δ
D3V-6G1K-1□3-Δ
D3V-011K-1□3-Δ

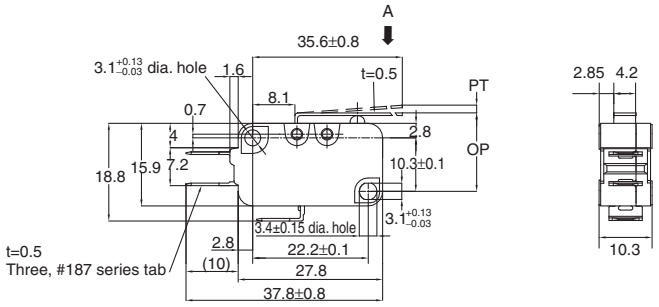


Model	D3V-21G1K-1□4A-Δ	D3V-161K-1□5-Δ D3V-111K-1□5-Δ	D3V-111K-1□4-Δ D3V-61K-1□4-Δ	D3V-6G1K-1□3-Δ	D3V-011K-1□3-Δ
OF max. RF min.	85 gf 8 gf	130 gf 16 gf	65 gf 8 gf	35 gf 4 gf	
PT max. OT min. MD max.	3.5 mm 1.1 mm 1.1 mm	3.5 mm 1.1 mm 1.2 mm (F gap type) or 1.1 mm (G gap type)			3.5 mm 1.1 mm 1.2 mm
OP	15.2 ± 1.2 mm				

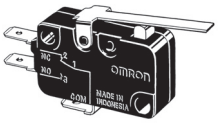
Hinge Lever Models

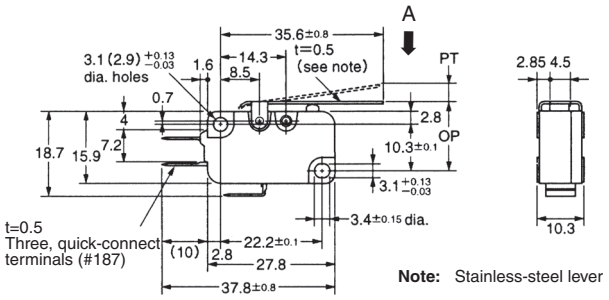
D3V-21G2-1□4A-Δ
D3V-162-1□5-Δ
D3V-112-1□5-Δ
D3V-112-1□4-Δ
D3V-62-1□4-Δ
D3V-6G2-1□3-Δ
D3V-012-1□3-Δ





D3V-21G2M-1□4A-Δ
D3V-162M-1□5-Δ
D3V-112M-1□5-Δ
D3V-112M-1□4-Δ
D3V-62M-1□4-Δ
D3V-6G2M-1□3-Δ
D3V-012M-1□3-Δ

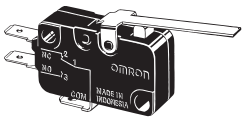


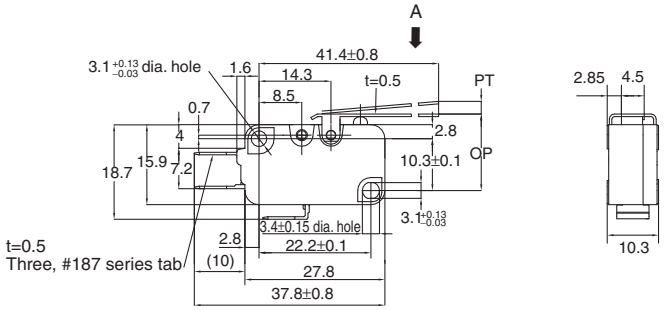


Note: Stainless-steel lever

Model	D3V-21G2(M)-1□4A-Δ	D3V-162(M)-1□5-Δ D3V-112(M)-1□5-Δ	D3V-112(M)-1□4-Δ D3V-62(M)-1□4–Δ	D3V-6G2(M)-1□3-Δ	D3V-012(M)-1□3-Δ
OF max. RF min.	80 gf 6 gf	125 gf 14 gf	60 gf 6 gf		30 gf - - -
PT max. OT min. MD max.	4.0 mm 1.6 mm 0.8 mm	4.0 mm 1.6 mm 1.5 mm (F gap type) or 0.8 mm (G gap type)			4.0 mm 1.6 mm 1.5 mm
OP	15.2 ± 1.2 mm				

D3V-21G2K-1□4A-Δ
D3V-162K-1□5-Δ
D3V-112K-1□5-Δ
D3V-112K-1□4-Δ
D3V-62K-1□4-Δ
D3V-6G2K-1□3-Δ
D3V-012K-1□3-Δ

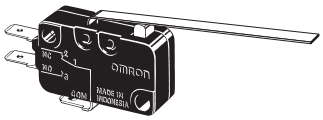


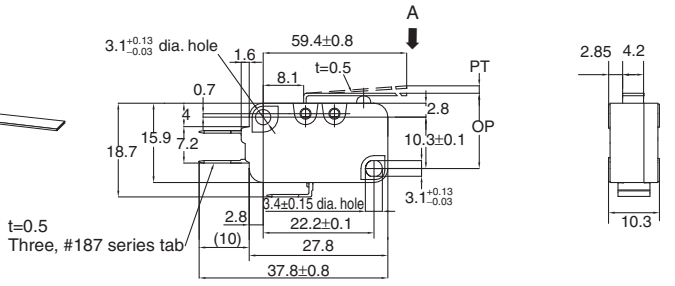


Model	D3V-21G2K-1□4A-Δ	D3V-162K-1□5-Δ D3V-112K-1□5-Δ	D3V-112K-1□4-Δ D3V-62K-1□4-Δ	D3V-6G2K-1□3-Δ	D3V-012K-1□3-Δ
OF max. RF min.	45 gf 4 gf	70 gf 8 gf	35 gf 4 gf	20 gf - - -	
PT max. OT min. MD max.	6.0 mm 2.5 mm 1.3 mm	6.0 mm 2.5 mm 2.0 mm (F gap type) or 1.3 mm (G gap type)			6.0 mm 2.5 mm 2.0 mm
OP	15.2 ± 2.0 mm				

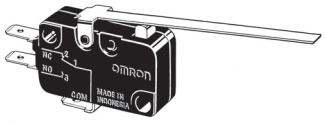
Long Hinge Lever Models

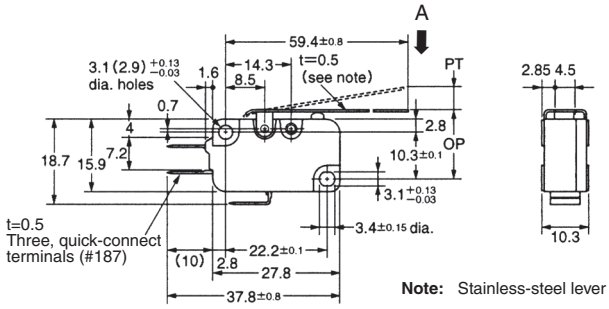
D3V-21G3-1□4A-Δ
D3V-163-1□5-Δ
D3V-113-1□5-Δ
D3V-113-1□4-Δ
D3V-63-1□4-Δ
D3V-6G3-1□3-Δ
D3V-013-1□3-Δ





D3V-21G3M-1□4A-Δ
D3V-163M-1□5-Δ
D3V-113M-1□5-Δ
D3V-113M-1□4-Δ
D3V-63M-1□4-Δ
D3V-6G3M-1□3-Δ
D3V-013M-1□3-Δ

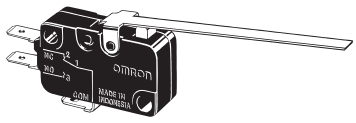


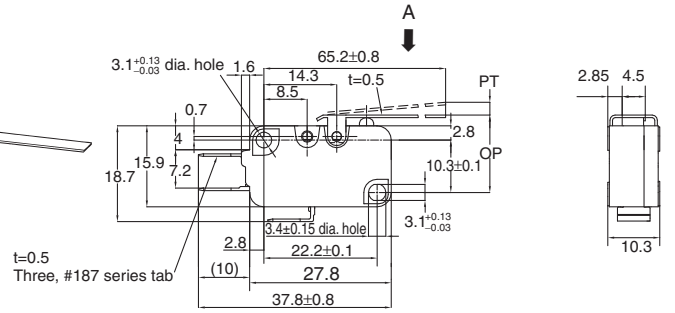


Note: Stainless-steel lever

Model	D3V-21G3(M)-1□4A-D	D3V-163(M)-1□5-D D3V-113(M)-1□5-D	D3V-113(M)-1□4-D D3V-63(M)-1□4-D	D3V-6G3(M)-1□3-D	D3V-013(M)-1□3-D
OF max. RF min.	45 gf 3 gf	70 gf 6 gf	35 gf ---	20 gf ---	
PT max. OT min. MD max.	9.0 mm 2.0 mm 2.0 mm	9.0 mm 2.0 mm 2.8 mm (F gap type) or 2.0 mm (G gap type)	9.0 mm 3.2 mm 2.8 mm (F gap type) or 2.0 mm (G gap type)		9.0 mm 3.2 mm 2.8 mm
OP	$15.2^{+2.6}_{-3.2}$ mm		15.2 ± 2.6 mm		

D3V-21G3K-1□4A-Δ
D3V-163K-1□5-Δ
D3V-113K-1□5-Δ
D3V-113K-1□4-Δ
D3V-63K-1□4-Δ
D3V-6G3K-1□3-Δ
D3V-013K-1□3-Δ

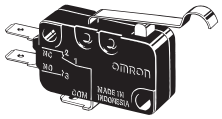


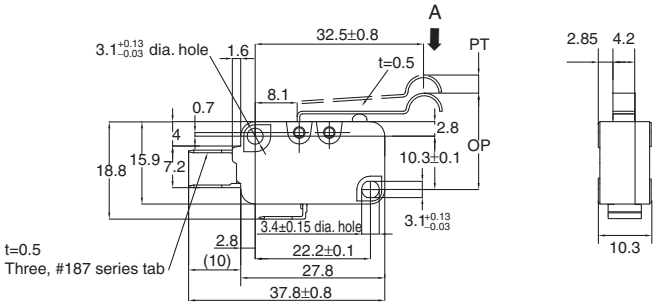


Model	D3V-21G3K-1□4A-D	D3V-163K-1□5-D D3V-113K-1□5-D	D3V-113K-1□4-D D3V-63K-1□4-D	D3V-6G3K-1□3-D	D3V-013K-1□3-D
OF max. RF min.	20 gf - - -	35 gf 4 gf	20 gf ---	10 gf ---	
PT max. OT min. MD max.	15.0 mm 4.0 mm 3.0 mm	15.0 mm 4.0 mm 3.8 mm (F gap type) or 3.0 mm (G gap type)			15.0 mm 4.0 mm 3.8 mm
OP	15.2 ± 3.0 mm				

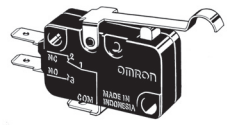
Simulated Roller Lever Models

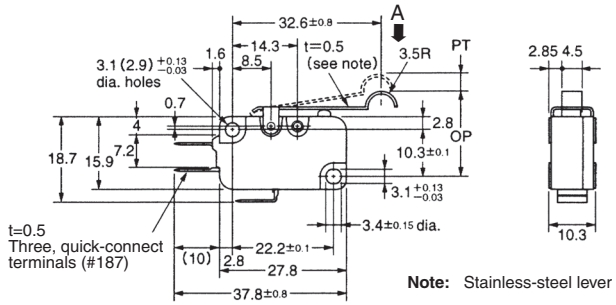
D3V-21G4-1□4A-Δ
D3V-164-1□5-Δ
D3V-114-1□5-Δ
D3V-114-1□4-Δ
D3V-64-1□4-Δ
D3V-6G4-1□3-Δ
D3V-014-1□3-Δ





D3V-21G4M-1□4A-Δ
D3V-164M-1□5-Δ
D3V-114M-1□5-Δ
D3V-114M-1□4-Δ
D3V-64M-1□4-Δ
D3V-6G4M-1□3-Δ
D3V-014M-1□3-Δ

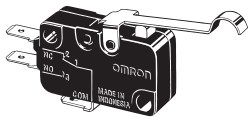


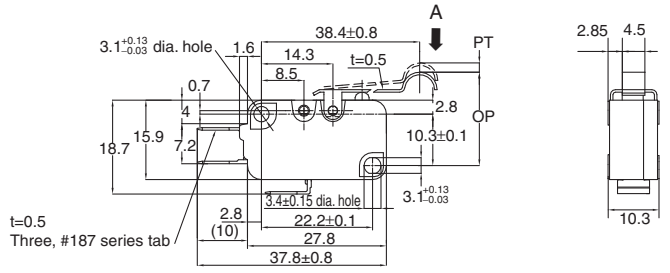


Note: Stainless-steel lever

Model	D3V-21G4(M)-1□4A-Δ	D3V-164(M)-1□5-Δ D3V-114(M)-1□5-Δ	D3V-114(M)-1□4-Δ D3V-64(M)-1□4-Δ	D3V-6G4(M)-1□3-Δ	D3V-014(M)-1□3-Δ
OF max. RF min.	85 gf 7 gf	125 gf 14 gf	60 gf 6 gf	30 gf ---	
PT max. OT min. MD max.	4.0 mm 1.6 mm 1.4 mm	4.0 mm 1.6 mm 1.5 mm (F gap type) or 0.8 mm (G gap type)			4.0 mm 1.6 mm 1.5 mm
OP	18.7 ± 1.2 mm				

D3V-21G4K-1□4A-Δ
D3V-164K-1□5-Δ
D3V-114K-1□5-Δ
D3V-114K-1□4-Δ
D3V-64K-1□4-Δ
D3V-6G4K-1□3-Δ
D3V-014K-1□3-Δ

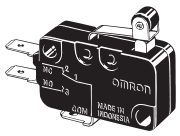


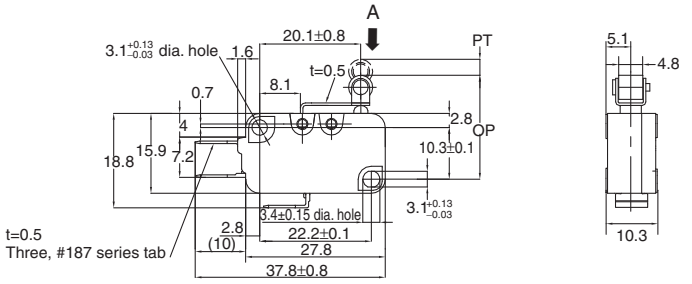


Model	D3V-21G4K-1□4A-D	D3V-164K-1□5-D D3V-114K-1□5-D	D3V-114K-1□4-D D3V-64K-1□4-D	D3V-6G4K-1□3-D	D3V-014K-1□3-D
OF max. RF min.	55 gf 3 gf	75 gf 10 gf	40 gf 3 gf	20 gf ---	
PT max. OT min. MD max.	8.0 mm 1.5 mm 3.0 mm	8.0 mm 1.5 mm 3.5 mm (F gap type) or 3.0 mm (G gap type)			8.0 mm 1.5 mm 3.5 mm
OP	18.7 ± 1.2 mm				

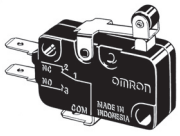
Short Hinge Roller Lever Models

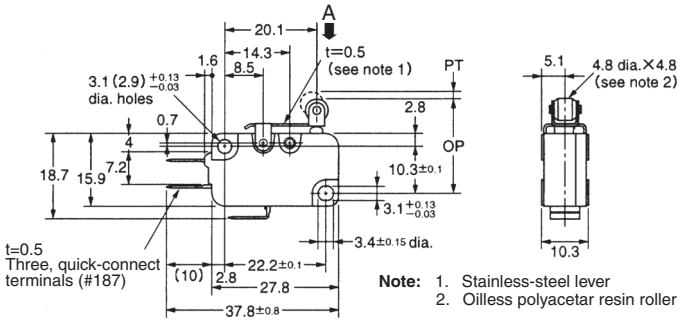
D3V-21G5-1□4A-Δ
D3V-165-1□5-Δ
D3V-115-1□5-Δ
D3V-115-1□4-Δ
D3V-65-1□4-Δ
D3V-6G5-1□3-Δ
D3V-015-1□3-Δ





D3V-21G5M-1□4A-Δ
D3V-165M-1□5-Δ
D3V-115M-1□5-Δ
D3V-115M-1□4-Δ
D3V-65M-1□4-Δ
D3V-6G5M-1□3-Δ
D3V-015M-1□3-Δ

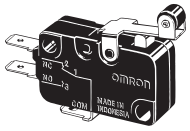


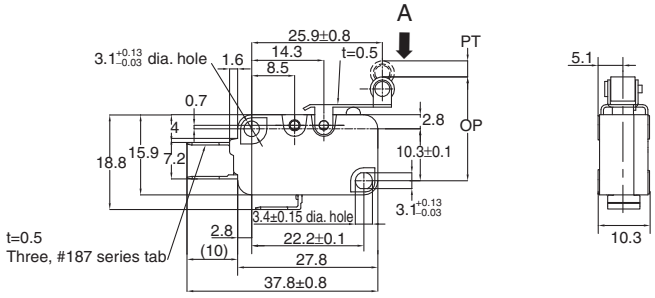


Note: 1. Stainless-steel lever
2. Oilless polyacetar resin roller

Model	D3V-21G5(M)-1□4A-Δ	D3V-165(M)-1□5-Δ D3V-115(M)-1□5-Δ	D3V-115(M)-1□4-Δ D3V-65(M)-1□4-Δ	D3V-6G5(M)-1□3-Δ	D3V-015(M)-1□3-Δ
OF max. RF min.	145 gf 20 gf	240 gf 50 gf	120 gf 15 gf	60 gf 6 gf	
PT max. OT min. MD max.	1.6 mm 0.8 mm 0.5 mm	1.6 mm 0.8 mm 0.6 mm (F gap type) or 0.5 mm (G gap type)			1.6 mm 0.8 mm 0.6 mm
OP	20.7±0.6 mm				

D3V-21G5K-1□4A-Δ
D3V-165K-1□5-Δ
D3V-115K-1□5-Δ
D3V-115K-1□4-Δ
D3V-65K-1□4-Δ
D3V-6G5K-1□3-Δ
D3V-015K-1□3-Δ

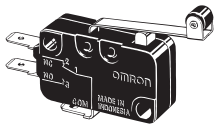


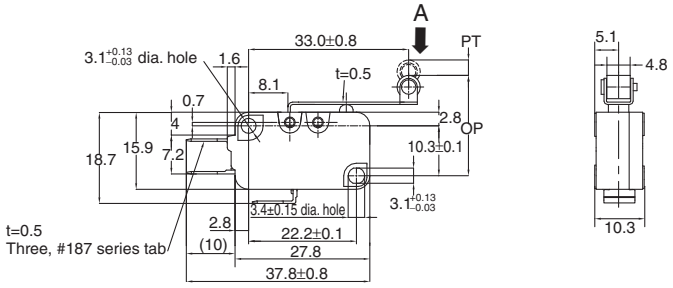


Model	D3V-21G5K-1□4A-D	D3V-165K-1□5-D D3V-115K-1□5-D	D3V-115K-1□4-D D3V-65K-1□4-D	D3V-6G5K-1□3-D	D3V-015K-1□3-D
OF max. RF min.	100 gf 8 gf	160 gf 15 gf	80 gf 8 gf	40 gf 4 gf	
PT max. OT min. MD max.	2.6 mm 1.0 mm 8.0 mm	2.6 mm 1.0 mm 0.9 mm (F gap type) or 0.8 mm (G gap type)			2.6 mm 1.0 mm 0.9 mm
OP	20.7 ± 1.0 mm				

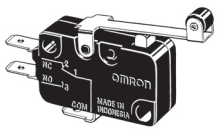
Hinge Roller Lever Models

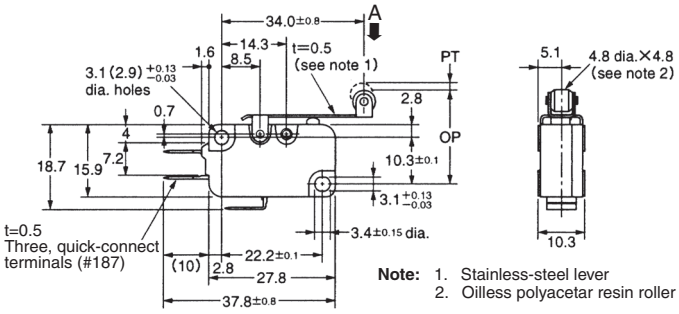
D3V-21G6-1□4A-Δ
D3V-166-1□5-Δ
D3V-116-1□5-Δ
D3V-116-1□4-Δ
D3V-66-1□4-Δ
D3V-6G6-1□3-Δ
D3V-016-1□3-Δ





D3V-21G6M-1□4A-Δ
D3V-166M-1□5-Δ
D3V-116M-1□5-Δ
D3V-116M-1□4-Δ
D3V-66M-1□4-Δ
D3V-6G6M-1□3-Δ
D3V-016M-1□3-Δ

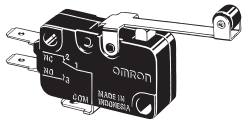


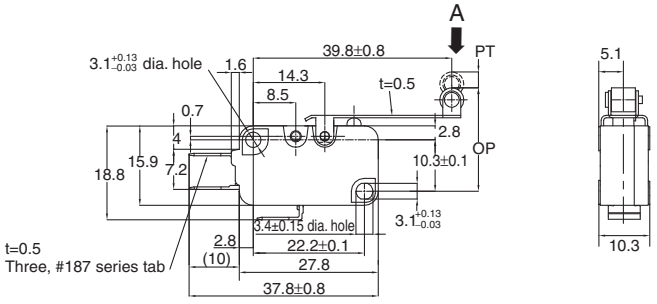


Note: 1. Stainless-steel lever
2. Oilless polyacetar resin roller

Model	D3V-21G6(M)-1□4A-Δ	D3V-166(M)-1□5-Δ D3V-116(M)-1□5-Δ	D3V-116(M)-1□4-Δ D3V-66(M)-1□4-Δ	D3V-6G6(M)-1□3-Δ	D3V-016(M)-1□3-Δ
OF max. **RF min.**	80 gf 5 gf	125 gf 14 gf	60 gf 6 gf	30 gf ---	
PT max. **OT min.** **MD max.**	4.0 mm 1.6 mm 0.8 mm	4.0 mm 1.6 mm 1.5 mm (F gap type) or 0.8 mm (G gap type)			4.0 mm 1.6 mm 1.5 mm
OP	20.7±1.2 mm				

D3V-21G6K-1□4A-Δ
D3V-166K-1□5-Δ
D3V-116K-1□5-Δ
D3V-116K-1□4-Δ
D3V-66K-1□4-Δ
D3V-6G6K-1□3-Δ
D3V-016K-1□3-Δ





Model	D3V-21G6K-1□4A-D	D3V-166K-1□5-D D3V-116K-1□5-D	D3V-116K-1□4-D D3V-66K-1□4-D	D3V-6G6K-1□3-D	D3V-016K-1□3-D
OF max. RF min.	50 gf 3 gf	75 gf 10 gf	40 gf 3 gf	20 gf - - -	
PT max. OT min. MD max.	7.2 mm 2.0 mm 2.0 mm	7.2 mm 2.0 mm 2.7 mm (F gap type) or 2.0 mm (G gap type)			7.2 mm 2.0 mm 2.7 mm
OP	20.7 ± 2.2 mm				

Precautions

Be sure to read the precautions and information common to all Snap Action and Detection Switches, contained in the Technical User's Guide, "Snap Action Switches, Technical Information" for correct use.

■ Correct Use

Mounting Direction

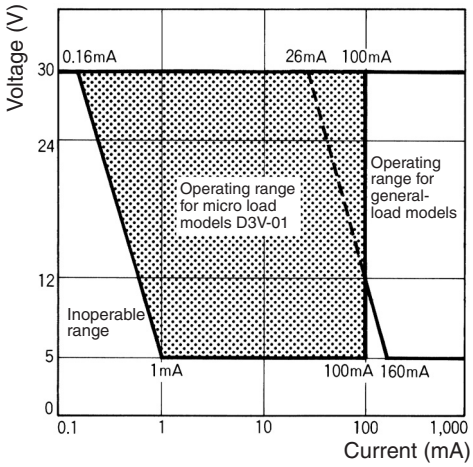
Mount lever-operated switches with a maximum operating force of 0.49 N in a direction where the actuator weight will not be applied to the switch. Since the switch is designed for a small load, its resetting force is small. Therefore, resetting failure may occur if unnecessary load is applied to the switch.

Insulation Distance

According to EN61058-1, the minimum insulation thickness for this switch should be 1.1 mm and minimum clearance distance between the terminal and mounting plate should be 1.9 mm. If the insulation distance cannot be provided in the product incorporating the switch, either use a switch with insulation barrier or use a Separator to ensure sufficient insulation distance.

Using Microloads

Using a model for ordinary loads to switch microloads may result in faulty operation. Instead, use the models that are designed for microloads and that operate in the following range;



However, even when using microload models within the operating range shown above, if inrush current or inductive voltage spikes occur when the contact is opened or closed, then contact wear may increase and so decrease the service life. Therefore, insert a contact protection circuit where necessary.

Solder Terminal Approval Conditions

Use of soldering iron for normal soldering is acceptable. Soldering hook holes version available.
Soldering terminal types 1 and 2 are met.

■ Cautions

Handling

Be careful not to drop the switch. Doing so may cause damage to the switch's internal components because it is designed for a small load.

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