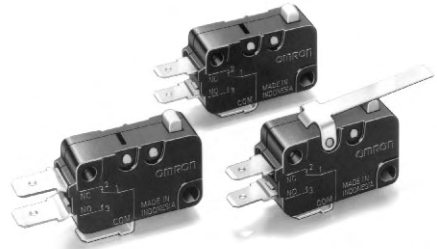


Reliable High Temperature Basic Switch with External Lever

- ROHS compliant.
- Available in 0.1 A, 6 A, 11 A, 16 A, 21 A, and 25 A models, all with self-cleaning contacts.
- Available with internally or externally fitted levers, and 2 fixing positions for external levers.
- Maximum operating temperature of 200°C
- Conforms to EN61058-1 and UL 1054.



Ordering Information

Model Number Legend

D3V-□□□□-□□□□-□□□□
 1 2 3 4 5 6 7 8 9 10

1. Ratings

25:	22 (5) A at 250 VAC
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 terminal
C2:	Quick-connect terminal (#187)
C:	Quick-connect terminal (#250)
C6:	RAST5 terminal (#250)

7. Maximum Operating Force

6:	3.92N {400gf}
5B:	3.43N {350gf}
5:	1.96 N {200 gf}
4B:	1.47N {150gf}
4A:	1.23 N {125 gf}
4:	0.98 N {100 gf}
3:	0.49 N {50 gf}
2:	0.25 N {25 gf}

Note: These values are for the pin plunger models.

8. Enclosure Material

None:	Standard
T:	High temperature (200°C, 155°C and EN 60695-2-11/-12 (Glow-wire flammability test methods) approved
W2:	Standard temperature (105°C, 85°C and EN 60695-2-11/-12 (Glow-wire flammability test methods) approved, PTI250

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 (for D3V-21 only)

Miniature Basic Switch (Non-Sealed) – D3V

■ Available Combinations - D3V - 25/21/16

Heat resistance	Model	D3V-25		D3V-21				D3V-16					
		Rated current		25 A		21 A				16 A			
		OF max.	Contact Gap	3.47N	3.47N	1.47N	1.23N	3.92N	1.96N		1.23N	0.98N	
				{350gf}	{350gf}	{150gf}	{125gf}	{400gf}	{200gf}		{125gf}	{100gf}	
Terminals		F/G	F/G	G	G	F/G	F	G	G	F/G			
Standard (85°C)	#187												
	#250	○	○	○	●								
	RAST5												
Standard (105°C)	#187					○	●	○		○			
	#250					○	●	○	○	○			
	RAST5								●				
EN60695-2-11 approved W2: (85)	#187												
	#250												
	RAST5												
EN60695-2-11 approved W2: (105)	#187						○	○					
	#250						○	○	○				
	RAST5								●				
High Temp. H: (125°C)	#187						○	○					
	#250						○	○					
	RAST5												
High Temp. T: (155°C)	#187												
	#250												
	RAST5												
High Temp. T: (200°C)	#187												
	#250												
	RAST5												

Note. 1. ● = Standard
 ○ = Semi-standard
 2. Consult OMRON for models with standard approval

Miniature Basic Switch (Non-Sealed) – D3V

■ Available Combinations - D3V - 11

Model		D3V-11					
		11 A					
Rated current	OF max.	1.96N {200gf}		1.23N {125gf}	0.98N {100gf}		0.49N {50gf}
		F	G	G	F	G	G
Heat resistance	Contact Gap						
	Terminals						
Standard (85°C)	#187						
	#250						
	RAST5						
Standard (105°C)	#187	●	○		●	○	○
	#250	●	○	○	●	○	○
	RAST5			●			●
EN60695-2-11 approved W2: (85°)	#187						
	#250						
	RAST5						
EN60695-2-11 approved W2: (105°)	#187						
	#250	○		○	○		
	RAST5			●			●
High Temp. H: (125°C)	#187	○	○		○	○	
	#250	○	○		○	○	
	RAST5						
High Temp. T: (155°C)	#187	○	○		○	○	○
	#250	○	○		○	○	○
	RAST5			○			○
High Temp. T: (200°C)	#187						
	#250						
	RAST5						

Note. 1. ● = Standard
○ = Semi-standard
2. Consult OMRON for models with standard approval

Miniature Basic Switch (Non-Sealed) – D3V

■ Available Combinations - D3V - 6/01

Model	Rated current	D3V-6					D3V-01			
		6 A					0.1 A			
		1.96N {200gf}	1.23N {125gf}	0.98N {100gf}		0.49N {50gf}	0.49N {50gf}	0.25N {25gf}	0.49N {50gf}	0.25N {25gf}
		F/G	G	F	G	G	F	F	G	G
OF max.	Contact Gap									
Heat resistance	Terminals									
Standard (85°C)	#187						●	●	○	○
	#250						●	●	○	○
	RAST5						●	●	○	○
Standard (105°C)	#187	○		●	○	●				
	#250	○	○	●	○	●				
	RAST5		●			●				
EN60695-2-11 approved W2: (85°)	#187						●	●	○	○
	#250						●	●	○	○
	RAST5						●	●	○	○
EN60695-2-11 approved W2: (105°)	#187									
	#250	○	○	○	○					
	RAST5		●							
High Temp. H: (125°C)	#187	○		○	○					
	#250	○		○	○					
	RAST5									
High Temp. T: (155°C)	#187									
	#250									
	RAST5									
High Temp. T: (200°C)	#187	○		○	○	○	○		○	
	#250	○		○	○	○	○		○	
	RAST5		○			○	○		○	

Note. 1. ● = Standard








○ = Semi-standard

2. Consult OMRON for models with standard approval








Miniature Basic Switch (Non-Sealed) – D3V

List of Models

21 A (OF: 1.23 N {125 gf})

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

16 A (OF: 1.96 N {200 gf})

Actuator	Hinge position	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger 	–	D3V-16-1□5-○-△▽	D3V-16-2□5-○-△▽	D3V-16-3□5-○-△▽
Short hinge lever 	Internal	D3V-161-1□5-○-△▽	D3V-161-2□5-○-△▽	D3V-161-3□5-○-△▽
	M	D3V-161M-1□5-○-△▽	D3V-161M-2□5-○-△▽	D3V-161M-3□5-○-△▽
Hinge lever 	Internal	D3V-162-1□5-○-△▽	D3V-162-2□5-○-△▽	D3V-162-3□5-○-△▽
	M	D3V-162M-1□5-○-△▽	D3V-162M-2□5-○-△▽	D3V-162M-3□5-○-△▽
Long hinge lever 	Internal	D3V-163-1□5-○-△▽	D3V-163-2□5-○-△▽	D3V-163-3□5-○-△▽
	M	D3V-163M-1□5-○-△▽	D3V-163M-2□5-○-△▽	D3V-163M-3□5-○-△▽
Simulated roller lever 	Internal	D3V-164-1□5-○-△▽	D3V-164-2□5-○-△▽	D3V-164-3□5-○-△▽
	M	D3V-164M-1□5-○-△▽	D3V-164M-2□5-○-△▽	D3V-164M-3□5-○-△▽
Short hinge roller lever 	Internal	D3V-165-1□5-○-△▽	D3V-165-2□5-○-△▽	D3V-165-3□5-○-△▽
	M	D3V-165M-1□5-○-△▽	D3V-165M-2□5-○-△▽	D3V-165M-3□5-○-△▽
Hinge roller lever 	Internal	D3V-166-1□5-○-△▽	D3V-166-2□5-○-△▽	D3V-166-3□5-○-△▽
	M	D3V-166M-1□5-○-△▽	D3V-166M-2□5-○-△▽	D3V-166M-3□5-○-△▽

Note: The □ in the model number is for the terminal code.

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

The △ in the model number is for the mounting hole size.

- None: 3.1 mm
- K: 2.9 mm

The ▽ is for the special code.








- None: Standard
- H: High Temperature (125°C)
- E: Special rating 21(8)A (for D3V-21 only)

The ○ in the model number is for enclosure material code.

- None: Standard
- T: High Temperature (200°C, 155°C) and EN60695-2-11/-12 (Glow-wire flammability test method) conformity.
- W2: Standard temperature (105°C, 85°C) and EN60695-2-11/-12 (Glow-wire flammability test method) conformity, PTI250.

Miniature Basic Switch (Non-Sealed) – D3V

16 A (OF: 1.23 N {125 gf})

Actuator	Hinge position	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger 	–	D3V-16-1□4A-O-△▽	D3V-16-2□4A-O-△▽	D3V-16-3□4A-O-△▽
Short hinge lever 	Internal	D3V-161-1□4A-O-△▽	D3V-161-2□4A-O-△▽	D3V-161-3□4A-O-△▽
	M	D3V-161M-1□4A-O-△▽	D3V-161M-2□4A-O-△▽	D3V-161M-3□4A-O-△▽
Hinge lever 	Internal	D3V-162-1□4A-O-△▽	D3V-162-2□4A-O-△▽	D3V-162-3□4A-O-△▽
	M	D3V-162M-1□4A-O-△▽	D3V-162M-2□4A-O-△▽	D3V-162M-3□4A-O-△▽
Long hinge lever 	Internal	D3V-163-1□4A-O-△▽	D3V-163-2□4A-O-△▽	D3V-163-3□4A-O-△▽
	M	D3V-163M-1□4A-O-△▽	D3V-163M-2□4A-O-△▽	D3V-163M-3□4A-O-△▽
Simulated roller lever 	Internal	D3V-164-1□4A-O-△▽	D3V-164-2□4A-O-△▽	D3V-164-3□4A-O-△▽
	M	D3V-164M-1□4A-O-△▽	D3V-164M-2□4A-O-△▽	D3V-164M-3□4A-O-△▽
Short hinge roller lever 	Internal	D3V-165-1□4A-O-△▽	D3V-165-2□4A-O-△▽	D3V-165-3□4A-O-△▽
	M	D3V-165M-1□4A-O-△▽	D3V-165M-2□4A-O-△▽	D3V-165M-3□4A-O-△▽
Hinge roller lever 	Internal	D3V-166-1□4A-O-△▽	D3V-166-2□4A-O-△▽	D3V-166-3□4A-O-△▽
	M	D3V-166M-1□4A-O-△▽	D3V-166M-2□4A-O-△▽	D3V-166M-3□4A-O-△▽

Note: The □ in the model number is for the terminal code.

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

The △ in the model number is for the mounting hole size.

- None: 3.1 mm
- K: 2.9 mm

The ▽ is for the special code.








- None: Standard
- H: High Temperature (125°C)

The ○ in the model number is for enclosure material code.








- None: Standard
- T: High Temperature (200°C, 155°C) and EN60695-2-11/-12 (Glow-wire flammability test method) conformity.
- W2: Standard temperature (105°C, 85°C) and EN60695-2-11/-12 (Glow-wire flammability test method) conformity, PTI250.

Miniature Basic Switch (Non-Sealed) – D3V

11 A (OF: 1.96 N {200 gf})

Actuator	Hinge position	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger 	–	D3V-11-1□5-○-△▽	D3V-11-2□5-○-△▽	D3V-11-3□5-○-△▽
Short hinge lever 	Internal	D3V-111-1□5-○-△▽	D3V-111-2□5-○-△▽	D3V-111-3□5-○-△▽
	M	D3V-111M-1□5-○-△▽	D3V-111M-2□5-○-△▽	D3V-111M-3□5-○-△▽
Hinge lever 	Internal	D3V-112-1□5-○-△▽	D3V-112-2□5-○-△▽	D3V-112-3□5-○-△▽
	M	D3V-112M-1□5-○-△▽	D3V-112M-2□5-○-△▽	D3V-112M-3□5-○-△▽
Long hinge lever 	Internal	D3V-113-1□5-○-△▽	D3V-113-2□5-○-△▽	D3V-113-3□5-○-△▽
	M	D3V-113M-1□5-○-△▽	D3V-113M-2□5-○-△▽	D3V-113M-3□5-○-△▽
Simulated roller lever 	Internal	D3V-114-1□5-○-△▽	D3V-114-2□5-○-△▽	D3V-114-3□5-○-△▽
	M	D3V-114M-1□5-○-△▽	D3V-114M-2□5-○-△▽	D3V-114M-3□5-○-△▽
Short hinge roller lever 	Internal	D3V-115-1□5-○-△▽	D3V-115-2□5-○-△▽	D3V-115-3□5-○-△▽
	M	D3V-115M-1□5-○-△▽	D3V-115M-2□5-○-△▽	D3V-115M-3□5-○-△▽
Hinge roller lever 	Internal	D3V-116-1□5-○-△▽	D3V-116-2□5-○-△▽	D3V-116-3□5-○-△▽
	M	D3V-116M-1□5-○-△▽	D3V-116M-2□5-○-△▽	D3V-116M-3□5-○-△▽

11 A (OF: 1.23 N {125 gf})

Actuator	Hinge position	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger 	–	D3V-11G-1□4A-○-△▽	D3V-11G-2□4A-○-△▽	D3V-11G-3□4A-○-△▽
Short hinge lever 	Internal	D3V-11G1-1□4A-○-△▽	D3V-11G1-2□4A-○-△▽	D3V-11G1-3□4A-○-△▽
	M	D3V-11G1M-1□4A-○-△▽	D3V-11G1M-2□4A-○-△▽	D3V-11G1M-3□4A-○-△▽
Hinge lever 	Internal	D3V-11G2-1□4A-○-△▽	D3V-11G2-2□4A-○-△▽	D3V-11G2-3□4A-○-△▽
	M	D3V-11G2M-1□4A-○-△▽	D3V-11G2M-2□4A-○-△▽	D3V-11G2M-3□4A-○-△▽
Long hinge lever 	Internal	D3V-11G3-1□4A-○-△▽	D3V-11G3-2□4A-○-△▽	D3V-11G3-3□4A-○-△▽
	M	D3V-11G3M-1□4A-○-△▽	D3V-11G3M-2□4A-○-△▽	D3V-11G3M-3□4A-○-△▽
Simulated roller lever 	Internal	D3V-11G4-1□4A-○-△▽	D3V-11G4-2□4A-○-△▽	D3V-11G4-3□4A-○-△▽
	M	D3V-11G4M-1□4A-○-△▽	D3V-11G4M-2□4A-○-△▽	D3V-11G4M-3□4A-○-△▽
Short hinge roller lever 	Internal	D3V-11G5-1□4A-○-△▽	D3V-11G5-2□4A-○-△▽	D3V-11G5-3□4A-○-△▽
	M	D3V-11G5M-1□4A-○-△▽	D3V-11G5M-2□4A-○-△▽	D3V-11G5M-3_4A-○-△▽
Hinge roller lever 	Internal	D3V-11G6-1□4A-○-△▽	D3V-11G6-2□4A-○-△▽	D3V-11G6-3□4A-○-△▽
	M	D3V-11G6M-1□4A-○-△▽	D3V-11G6M-2□4A-○-△▽	D3V-11G6M-3□4A-○-△▽

Note: The □ in the model number is for the terminal code.

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

The △ in the model number is for the mounting hole size.

- None: 3.1 mm
- K: 2.9 mm

The ▽ is for the special code.








- None: Standard
- H: High Temperature (125°C)

The ○ in the model number is for enclosure material code.








- None: Standard
- T: High Temperature (200°C, 155°C) and EN60695-2-11/-12 (Glow-wire flammability test method) conformity.
- W2: Standard temperature (105°C, 85°C) and EN60695-2-11/-12 (Glow-wire flammability test method) conformity, PTI250.

Miniature Basic Switch (Non-Sealed) – D3V

11 A (OF: 0.98 N {100 gf})

Actuator	Hinge position	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger 	-	D3V-11-1□4-O-△▽	D3V-11-2□4-O-△▽	D3V-11-3□4-O-△▽
Short hinge lever 	Internal	D3V-111-1□4-O-△▽	D3V-111-2□4-O-△▽	D3V-111-3□4-O-△▽
	M	D3V-111M-1□4-O-△▽	D3V-111M-2□4-O-△▽	D3V-111M-3□4-O-△▽
Hinge lever 	Internal	D3V-112-1□4-O-△▽	D3V-112-2□4-O-△▽	D3V-112-3□4-O-△▽
	M	D3V-112M-1□4-O-△▽	D3V-112M-2□4-O-△▽	D3V-112M-3□4-O-△▽
Long hinge lever 	Internal	D3V-113-1□4-O-△▽	D3V-113-2□4-O-△▽	D3V-113-3□4-O-△▽
	M	D3V-113M-1□4-O-△▽	D3V-113M-2□4-O-△▽	D3V-113M-3□4-O-△▽
Simulated roller lever 	Internal	D3V-114-1□4-O-△▽	D3V-114-2□4-O-△▽	D3V-114-3□4-O-△▽
	M	D3V-114M-1□4-O-△▽	D3V-114M-2□4-O-△▽	D3V-114M-3□4-O-△▽
Short hinge roller lever 	Internal	D3V-115-1□4-O-△▽	D3V-115-2□4-O-△▽	D3V-115-3□4-O-△▽
	M	D3V-115M-1□4-O-△▽	D3V-115M-2□4-O-△▽	D3V-115M-3□4-O-△▽
Hinge roller lever 	Internal	D3V-116-1□4-O-△▽	D3V-116-2□4-O-△▽	D3V-116-3□4-O-△▽
	M	D3V-116M-1□4-O-△▽	D3V-116M-2□4-O-△▽	D3V-116M-3□4-O-△▽

11 A (OF: 0.49 N {50 gf})

Actuator	Hinge position	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger 	-	D3V-11G-1□3-O-△▽	D3V-11G-2□3-O-△▽	D3V-11G-3□3-O-△▽
Short hinge lever 	Internal	D3V-11G1-1□3-O-△▽	D3V-11G1-2□3-O-△▽	D3V-11G1-3□3-O-△▽
	M	D3V-11G1M-1□3-O-△▽	D3V-11G1M-2□3-O-△▽	D3V-11G1M-3□3-O-△▽
Hinge lever 	Internal	D3V-11G2-1□3-O-△▽	D3V-11G2-2□3-O-△▽	D3V-11G2-3□3-O-△▽
	M	D3V-11G2M-1□3-O-△▽	D3V-11G2M-2□3-O-△▽	D3V-11G2M-3□3-O-△▽
Long hinge lever 	Internal	D3V-11G3-T1□3-O-△▽	D3V-11G3-T2□3-O-△▽	D3V-11G3-T3□3-O-△▽
	M	D3V-11G3M-1□3-O-△▽	D3V-11G3M-2□3-O-△▽	D3V-11G3M-3□3-O-△▽
Simulated roller lever 	Internal	D3V-11G4-1□3-O-△▽	D3V-11G4-2□3-O-△▽	D3V-11G4-3□3-O-△▽
	M	D3V-11G4M-1□3-O-△▽	D3V-11G4M-2□3-O-△▽	D3V-11G4M-3□3-O-△▽
Short hinge roller lever 	Internal	D3V-11G5-1□3-O-△▽	D3V-11G5-2□3-O-△▽	D3V-11G5-3□3-O-△▽
	M	D3V-11G5M-1□3-O-△▽	D3V-11G5M-2□3-O-△▽	D3V-11G5M-3□3-O-△▽
Hinge roller lever 	Internal	D3V-11G6-1□3-O-△▽	D3V-11G6-2□3-O-△▽	D3V-11G6-3□3-O-△▽
	M	D3V-11G6M-1□3-O-△▽	D3V-11G6M-2□3-O-△▽	D3V-11G6M-3□3-O-△▽

Note: The □ in the model number is for the terminal code.

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

The △ in the model number is for the mounting hole size.

- None: 3.1 mm
- K: 2.9 mm

The ▽ is for the special code.








- None: Standard
- H: High Temperature (125°C)

The ○ in the model number is for enclosure material code.








- None: Standard
- T: High Temperature (200°C, 155°C) and EN60695-2-11/-12 (Glow-wire flammability test method) conformity.
- W2: Standard temperature (105°C, 85°C) and EN60695-2-11/-12 (Glow-wire flammability test method) conformity, PTI250.

Miniature Basic Switch (Non-Sealed) – D3V

6 A (OF: 1.23 N {125 gf})

Actuator	Hinge position	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger 	-	D3V-6-1□4A-O-△▽	D3V-6-2□4A-O-△▽	D3V-6-3□4A-O-△▽
Short hinge lever 	Internal	D3V-61-1□4A-O-△▽	D3V-61-2□4A-O-△▽	D3V-61-3□4A-O-△▽
	M	D3V-61M-1□4A-O-△▽	D3V-61M-2□4A-O-△▽	D3V-61M-3□4A-O-△▽
Hinge lever 	Internal	D3V-62-1□4A-O-△▽	D3V-62-2□4A-O-△▽	D3V-62-3□4A-O-△▽
	M	D3V-62M-1□4A-O-△▽	D3V-62M-2□4A-O-△▽	D3V-62M-3□4A-O-△▽
Long hinge lever 	Internal	D3V-63-1□4A-O-△▽	D3V-63-2□4A-O-△▽	D3V-63-3□4A-O-△▽
	M	D3V-63M-1□4A-O-△▽	D3V-63M-2□4A-O-△▽	D3V-63M-3□4A-O-△▽
Simulated roller lever 	Internal	D3V-64-1□4A-O-△▽	D3V-64-2□4A-O-△▽	D3V-64-3□4A-O-△▽
	M	D3V-64M-1□4A-O-△▽	D3V-64M-2□4A-O-△▽	D3V-64M-3□4A-O-△▽
Short hinge roller lever 	Internal	D3V-65-1□4A-O-△▽	D3V-65-2□4A-O-△▽	D3V-65-3□4A-O-△▽
	M	D3V-65M-1□4A-O-△▽	D3V-65M-2□4A-O-△▽	D3V-65M-3□4A-O-△▽
Hinge roller lever 	Internal	D3V-66-1□4A-O-△▽	D3V-66-2□4A-O-△▽	D3V-66-3□4A-O-△▽
	M	D3V-66M-1□4A-O-△▽	D3V-66M-2□4A-O-△▽	D3V-66M-3□4A-O-△▽

6 A (OF: 0.98 N {100 gf})

Actuator	Hinge position	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger 	-	D3V-6-1□4-O-△□	D3V-6-2□4-O-△□	D3V-6-3□4-O-△□
Short hinge lever 	Internal	D3V-61-1□4-O-△□	D3V-61-2□4-O-△□	D3V-61-3□4-O-△□
	M	D3V-61M-1□4-O-△□	D3V-61M-2□4-O-△□	D3V-61M-3□4-O-△□
Hinge lever 	Internal	D3V-62-1□4-O-△□	D3V-62-2□4-O-△□	D3V-62-3□4-O-△□
	M	D3V-62M-1□4-O-△□	D3V-62M-2□4-O-△□	D3V-62M-3□4-O-△□
Long hinge lever 	Internal	D3V-63-1□4-O-△□	D3V-63-2□4-O-△□	D3V-63-3□4-O-△□
	M	D3V-63M-1□4-O-△□	D3V-63M-2□4-O-△□	D3V-63M-3□4-O-△□
Simulated roller lever 	Internal	D3V-64-1□4-O-△□	D3V-64-2□4-O-△□	D3V-64-3□4-O-△□
	M	D3V-64M-1□4-O-△□	D3V-64M-2□4-O-△□	D3V-64M-3□4-O-△□
Short hinge roller lever 	Internal	D3V-65-1□4-O-△□	D3V-65-2□4-O-△□	D3V-65-3□4-O-△□
	M	D3V-65M-1□4-O-△□	D3V-65M-2□4-O-△□	D3V-65M-3□4-O-△□
Hinge roller lever 	Internal	D3V-66-1□4-O-△□	D3V-66-2□4-O-△□	D3V-66-3□4-O-△□
	M	D3V-66M-1□4-O-△□	D3V-66M-2□4-O-△□	D3V-66M-3□4-O-△□

Note: The □ in the model number is for the terminal code.

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

The ○ in the model number is for enclosure material code.

- None: Standard
- T: High Temperature (200°C, 155°C) and EN60695-2-11/-12 (Glow-wire flammability test method) conformity.
- W2: Standard temperature (105°C, 85°C) and EN60695-2-11/-12 (Glow-wire flammability test method) conformity, PTI250.








The △ in the model number is for the mounting hole size.

- None: 3.1 mm
- K: 2.9 mm








The ▽ is for the special code.

- None: Standard
- H: High Temperature (125°C)


6 A (OF: 0.49 N {50 gf})

Actuator	Hinge position	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger 	-	D3V-6G-1□3-O-△▽	D3V-6G-2□3-O-△▽	D3V-6G-3□3-O-△▽
Short hinge lever 	Internal	D3V-6G1-1□3-O-△▽	D3V-6G1-2□3-O-△▽	D3V-6G1-3□3-O-△▽
	M	D3V-6G1M-1□3-O-△▽	D3V-6G1M-2□3-O-△▽	D3V-6G1M-3□3-O-△▽
Hinge lever 	Internal	D3V-6G2-1□3-O-△▽	D3V-6G2-2□3-O-△▽	D3V-6G2-3□3-O-△▽
	M	D3V-6G2M-1□3-O-△▽	D3V-6G2M-2□3-O-△▽	D3V-6G2M-3□3-O-△▽
Long hinge lever 	Internal	D3V-6G3-1□3-O-△▽	D3V-6G3-2□3-O-△▽	D3V-6G3-3□3-O-△▽
	M	D3V-6G3M-1□3-O-△▽	D3V-6G3M-2□3-O-△▽	D3V-6G3M-3□3-O-△▽
Simulated roller lever 	Internal	D3V-6G4-1□3-O-△▽	D3V-6G4-2□3-O-△▽	D3V-6G4-3□3-O-△▽
	M	D3V-6G4M-1□3-O-△▽	D3V-6G4M-2□3-O-△▽	D3V-6G4M-3□3-O-△▽
Short hinge roller lever 	Internal	D3V-6G5-1□3-O-△▽	D3V-6G5-2□3-O-△▽	D3V-6G5-3□3-O-△▽
	M	D3V-6G5M-1□3-O-△▽	D3V-6G5M-2□3-O-△▽	D3V-6G5M-3□3-O-△▽
Hinge roller lever 	Internal	D3V-6G6-1□3-O-△▽	D3V-6G6-2□3-O-△▽	D3V-6G6-3□3-O-△▽
	M	D3V-6G6M-1□3-O-△▽	D3V-6G6M-2□3-O-△▽	D3V-6G6M-3□3-O-△▽

01 A (OF: 0.49 N {50 gf})

Actuator	Hinge position	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger 	-	D3V-01-1□3-O-△▽	D3V-01-2□3-O-△▽	D3V-01-3□3-O-△▽
Short hinge lever 	Internal	D3V-011-1□3-O-△▽	D3V-011-2□3-O-△▽	D3V-011-3□3-O-△▽
	M	D3V-011M-1□3-O-△▽	D3V-011M-2□3-O-△▽	D3V-011M-3□3-O-△▽
Hinge lever 	Internal	D3V-012-1□3-O-△▽	D3V-012-2□3-O-△▽	D3V-012-3□3-O-△▽
	M	D3V-012M-1□3-O-△▽	D3V-012M-2□3-O-△▽	D3V-012M-3□3-O-△▽
Long hinge lever 	Internal	D3V-013-1□3-O-△▽	D3V-013-2□3-O-△▽	D3V-013-3□3-O-△▽
	M	D3V-013M-1□3-O-△▽	D3V-013M-2□3-O-△▽	D3V-013M-3□3-O-△▽
Simulated roller lever 	Internal	D3V-014-1□3-O-△▽	D3V-014-2□3-O-△▽	D3V-014-3□3-O-△▽
	M	D3V-014M-1□3-O-△▽	D3V-014M-2□3-O-△▽	D3V-014M-3□3-O-△▽
Short hinge roller lever 	Internal	D3V-015-1□3-O-△▽	D3V-015-2□3-O-△▽	D3V-015-3□3-O-△▽
	M	D3V-015M-1□3-O-△▽	D3V-015M-2□3-O-△▽	D3V-015M-3□3-O-△▽
Hinge roller lever 	Internal	D3V-016-1□3-O-△▽	D3V-016-2□3-O-△▽	D3V-016-3□3-O-△▽
	M	D3V-016M-1□3-O-△▽	D3V-016M-2□3-O-△▽	D3V-016M-3□3-O-△▽

01 A (OF: 25 N {25 gf})

Actuator	Hinge position	Contact form		
		SPDT	SPST-NC	SPST-NO
Pin plunger 	-	D3V-01-1□2-O-△▽	D3V-01-2□2-O-△▽	D3V-01-3□2-O-△▽

Note: Lever is not recommendable for 0.25N OF type because of the low OF.

W2: Standard temperature (105°C, 85°C) and EN60695-2-11/-12 (Glow-wire flammability test method) conformity, PTI250.

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

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

The △ in the model number is for the mounting hole size.

- None: 3.1 mm
- K: 2.9 mm

The ▽ is for the special code.

- None: Standard
- H: High Temperature (125°C)

The ○ in the model number is for enclosure material code.

- None: Standard
- T: High Temperature (200°C, 155°C) and EN60695-2-11/-12 (Glow-wire flammability test method) conformity.

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-25	250 VAC	25 A				5 A			
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

■ Characteristics

Operating speed	0.1 mm to 1 m/s (at pin plunger models)
Operating frequency	Mechanical: 600 operations/min Electrical: 60 operations/min
Insulation resistance	100 MΩ min. (at 500 VDC)
Contact resistance (initial values)	D3V-21, D3V-25: 50 mΩ max. D3V-16, D3V-11, D3V-6: 30 mΩ max. D3V-01, 0.49 N {50 gf}: 50 mΩ max. 0.25 N {25 gf}: 100 mΩ max..
Dielectric strength (see note 1)	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 2)	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance (see note 2)	Destruction: 400 m/s ² (approx. 40G) max. Malfunction: 100 m/s ² (approx. 10G) max.
Durability (see note 3)	Mechanical: 10,000,000 operations min.
	Electrical: D3V-21, D3V-25: 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-25: -25°C to 85°C (with no icing) 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 type H; -25°C to 125°C, T; -25°C to 155°C) (with no icing) D3V-6: -25°C to 105°C (High temperature type 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 (pin plunger model)

Note: 1. The dielectric strength values shown in the table are for models with a Separator.

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

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

■ Approved Standards

UL1054 (File No. E41515) CSA C22.2 No.55 (File No. LR21642)

(Only Standard Ratings are listed.)

Rated voltage	D3V-25*	D3V-21G	D3V-16	D3V-16G	D3V-11	D3V-11G	D3V-6	D3V-6G	D3V-01
125 VAC	1 HP	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	22A, 2HP	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	–	–	–	–

Note: *projected

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

Rated voltage	D3V-25*	D3V-21G	D3V-16	D3V-11	D3V-6	D3V-01
125 VAC	–	–	–	–	–	0.1 A
250 VAC	22(5)A	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 1200 (0 to 200°C) for D3V-6/01 with suffix T, T155 (0 to 155°C) for D3V-11 with suffix T.

*D3V-25 rating (projected). **Testing conditions: 10,000 operations, T85 (0°C to 85°C).

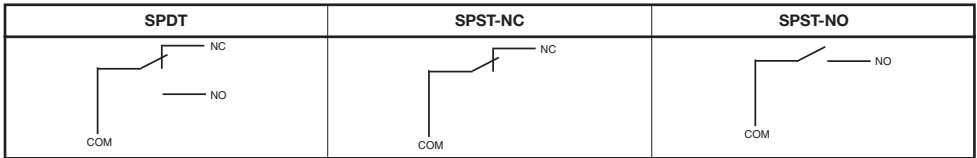
EN 60695-2-11 Ed.2, EN 60695-2-12 Ed.2 Glow-wire flammability test methods

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	–

■ Contact Specifications

Item		D3V-25	D3V-21	D3V-16	D3V-11	D3V-6	D3V-01
Contact	Specification	Rivet					Crossbar
	Material	Silver alloy					Gold alloy
	Gap (standard value)	1 mm (F gap) type	0.5 mm	1 mm (F gap) or 0.5 mm (G gap)			1.0 mm
Inrush current	NC	50 A max.	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

■ Contact Form



Dimensions

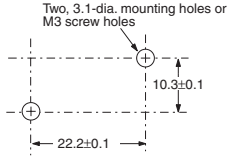
■ Terminals

Note: 1. All units are in millimetres unless otherwise indicated.

2. The table below 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.

Terminal type	Solder Terminal (A)	Quick-connect Terminal (#187) (C2)	Quick-connect Terminal (#250) (C)	Quick-connect RAST5 Terminals (#250) (C6)
COM	<p>Three, solder/quick-connect terminals (#187)</p>	<p>Three, quick-connect terminals (#187)</p>	<p>Three, quick-connect terminals (#250)</p>	<p>Three quick connect terminals (#250)</p>
Terminal dimensions	<p>Note: Indicates the length to the center of the 1.6-dia. holes</p>			

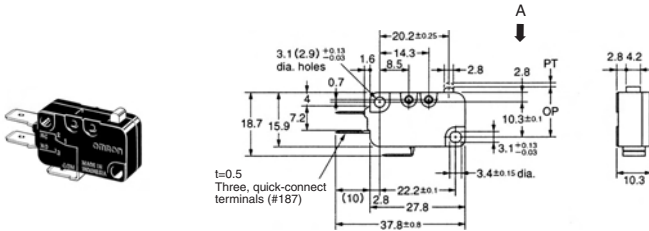
■ Mounting Holes



Dimensions & Operating Characteristics

Note: 1. All units are in millimetres unless otherwise indicated.

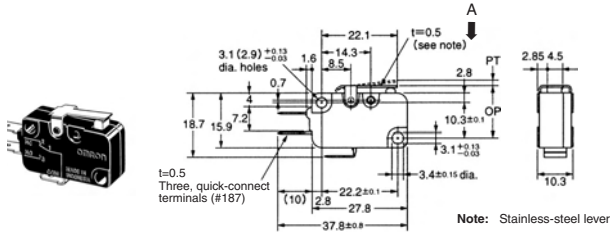
2. Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.
3. The following illustrations and drawings are for quick-connect terminals (#187) (terminals C2). D3V models incorporate terminals A, C and C6. Terminals A, C and C6 are omitted from the following drawings. Refer to Terminals on page 10 for these terminals.
4. The following illustrations and drawings are for models with the hinge position set to external/further than plunger. Models with the hinge position set to internal position are not shown here. For details about the internal position models, contact your OMRON sales representative. Operating characteristics are the same for these two types of models.
5. The ● in the model number is for the operating force.
6. The ■ in the model number is for the contact gap.
7. The □ in the model number is for the terminal code.
8. The ○ in the model number is for the enclosure material.
9. The △ in the model number is for the mounting hole size.
10. The operating characteristics are for operation in the A direction (↓).



Pin Plunger models

Model	D3V-●■□6-O-△▽	D3V-●■□5B-O-△▽	D3V-●■□5-O-△▽	D3V-●■□4B-O-△▽
OF max.	3.92 N {400gf}	3.43 N {350gf}	1.96 N {200gf}	1.47N {150gf}
RF min.	0.78 N {80gf}	0.78 N {80gf}	0.49 N {50gf}	0.20N {20gf}
PT max.	1.2 mm			1.2 mm
OT min.	1.0 mm			1.0 mm
MD max.	0.4 mm (F gap type) or 0.3 mm (G gap type)			0.3 mm (G gap type)
OP	14.7±0.4 mm			

Model	D3V-●■□4A-O-△▽	D3V-●■□4-O-△▽	D3V-●■□3-O-△▽	D3V-●■□2-O-△▽
OF max.	1.23N {125gf}	0.98N {100gf}	0.49 N {50gf}	0.25 N {25gf}
RF min.	0.20N {20gf}	0.15N {15gf}	0.05 N {5gf}	0.03 N {3gf}
PT max.	1.2 mm			
OT min.	1.0 mm			
MD max.	0.3 mm (G gap type)		0.4 mm (F gap type) or 0.3 mm (G gap type)	
OP	14.7±0.4 mm			



Short Hinge Lever Models

Model	D3V-●●1-□6-O-△▽	D3V-●●1-□5B-O-△▽	D3V-●●1-□5-O-△▽
OF max.	3.92 N {400gf}	3.43 N {350gf}	1.96 N {200gf}
RF min.	0.78 N {80gf}	0.78 N {80gf}	0.49 N {50gf}
PT max.	1.6 mm		
OT min.	0.8 mm		
MD max.	0.6 mm (F gap type) or 0.5 mm (G gap type)		
OP	15.2±0.5 mm		

Model	D3V-●●1-□4B-O-△▽	D3V-●●1-□4A-O-△▽	D3V-●●1-□4-O-△▽	D3V-●●1-□3-O-△▽
OF max.	1.47N {150gf}	1.23N {125gf}	0.98N {100gf}	0.49 N {50gf}
RF min.	0.20N {20gf}	0.20N {20gf}	0.15N {15gf}	0.05 N {5gf}
PT max.	1.6 mm		1.6 mm	
OT min.	0.8 mm		0.8 mm	
MD max.	0.5 mm (G gap type)		0.6 mm (F gap type) or 0.5 mm (G gap type)	
OP	15.2±0.5 mm			

Model	D3V-●●1M-□6-O-△▽	D3V-●●1M-□5B-O-△▽	D3V-●●1M-□5-O-△▽
OF max.	3.92 N {400gf}	3.43 N {350gf}	1.96 N {200gf}
RF min.	0.78 N {80gf}	0.78 N {80gf}	0.49 N {50gf}
PT max.	1.6 mm		
OT min.	0.8 mm		
MD max.	0.6 mm (F gap type) or 0.5 mm (G gap type)		
OP	15.2±0.5 mm		

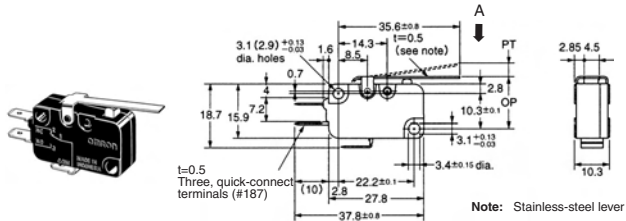
Model	D3V-●●1M-□4B-O-△▽	D3V-●●1M-□4A-O-△▽	D3V-●●1M-□4-O-△▽	D3V-●●1M-□3-O-△▽
OF max.	1.47N {150gf}	1.23N {125gf}	0.98N {100gf}	0.49 N {50gf}
RF min.	0.20N {20gf}	0.20N {20gf}	0.15N {15gf}	0.05 N {5gf}
PT max.	1.6 mm		1.6 mm	
OT min.	0.8 mm		0.8 mm	
MD max.	0.5 mm (G gap type)		0.6 mm (F gap type) or 0.5 mm (G gap type)	
OP	15.2±0.5 mm			

Model	D3V-●●1K-□6-O-△▽	D3V-●●1K-□5B-O-△▽	D3V-●●1K-□5-O-△▽
OF max.	2.60 N {265gf}	2.26 N {230gf}	1.27 N {130gf}
RF min.	0.25 N {25gf}	0.27 N {28gf}	0.16 N {16gf}
PT max.	3.5 mm		
OT min.	1.1 mm		
MD max.	1.2 mm (F gap type) or 1.1 mm (G gap type)		
OP	15.2±1.2 mm		

Non-Sealed Microswitches

Miniature Basic Switch (Non-Sealed) – D3V

Model	D3V-●●1K-□4B-○-△▽	D3V-●●1K-□4A-○-△▽	D3V-●●1K-□4-○-△▽	D3V-●●1K-□3-○-△▽
OF max.	0.98N {100gf}	0.83N {85gf}	0.64N {65gf}	0.34 N {35gf}
RF min.	0.07N {7gf}	0.08N {8gf}	0.08N {8gf}	0.04 N {4gf}
PT max.	3.5 mm		3.5 mm	
OT min.	1.1 mm		1.1 mm	
MD max.	1.1 mm (G gap type)		1.2 mm (F gap type) or 1.1 mm (G gap type)	
OP	15.2±1.2 mm			



Hinge Lever Models

Model	D3V-●●2-□6-○-△▽	D3V-●●2-□5B-○-△▽	D3V-●●2-□5-○-△▽
OF max.	2.45 N {250gf}	1.45 N {148gf}	1.23 N {125gf}
RF min.	0.25 N {25gf}	0.25 N {25gf}	0.14 N {14gf}
PT max.	4.0mm		
OT min.	1.6 mm		
MD max.	1.5 mm (F gap type) or 0.8 mm (G gap type)		
OP	15.2±1.2 mm		

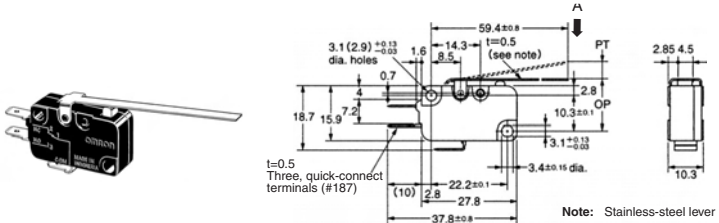
Model	D3V-●●2-□4B-○-△▽	D3V-●●2-□4A-○-△▽	D3V-●●2-□4-○-△▽	D3V-●●2-□3-○-△▽
OF max.	0.88N {90gf}	0.78N {80gf}	0.59N {60gf}	0.29 N {35gf}
RF min.	0.05N {5gf}	0.06N {6gf}	0.06N {6gf}	---
PT max.	4.0mm		4.0mm	
OT min.	1.6 mm		1.6 mm	
MD max.	0.8 mm (G gap type)		1.5 mm (F gap type) or 0.8 mm (G gap type)	
OP	15.2±1.2 mm			

Model	D3V-●●2M-□6-○-△▽	D3V-●●2M-□5B-○-△▽	D3V-●●2M-□5-○-△▽
OF max.	2.45 N {250gf}	1.45 N {148gf}	1.23 N {125gf}
RF min.	0.25 N {25gf}	0.25 N {25gf}	0.14 N {14gf}
PT max.	4.0mm		
OT min.	1.6 mm		
MD max.	1.5 mm (F gap type) or 0.8 mm (G gap type)		
OP	15.2±1.2 mm		

Model	D3V-●●2M-□4B-○-△▽	D3V-●●2M-□4A-○-△▽	D3V-●●2M-□4-○-△▽	D3V-●●2M-□3-○-△▽
OF max.	0.88N {90gf}	0.78N {80gf}	0.59N {60gf}	0.29 N {35gf}
RF min.	0.05N {5gf}	0.06N {6gf}	0.06N {6gf}	---
PT max.	4.0mm		4.0mm	
OT min.	1.6 mm		1.6 mm	
MD max.	0.8 mm (G gap type)		1.5 mm (F gap type) or 0.8 mm (G gap type)	
OP	15.2±1.2 mm			

Model	D3V- ●●● 2K-□6-O-△▽	D3V- ●●● 2K-□5B-O-△▽	D3V- ●●● 2K-□5-O-△▽
OF max.	1.32 N {135gf}	1.13 N {115gf}	0.69 N {70gf}
RF min.	0.14 N {14gf}	0.14 N {14gf}	0.08 N {8gf}
PT max.	6.0 mm		
OT min.	2.5 mm		
MD max.	2.0 mm (F gap type) or 1.3 mm (G gap type)		
OP	15.2±2 mm		

Model	D3V- ●●● 2K-□4B-O-△▽	D3V- ●●● 2K-□4A-O-△▽	D3V- ●●● 2K-□4-O-△▽	D3V- ●●● 2K-□3-O-△▽
OF max.	0.49 {50gf}	0.44N {45gf}	0.34N {35gf}	0.20 N {20gf}
RF min.	0.03N {3gf}	0.04N {4gf}	0.04N {4gf}	---
PT max.	6.0 mm			
OT min.	2.5 mm			
MD max.	1.3 mm (G gap type)		2.0 mm (F gap type) or 1.3 mm (G gap type)	
OP	15.2±2 mm			



Long Hinge Lever Models

Model	D3V- ●●● 3-□6-O-△▽	D3V- ●●● 3-□5B-O-△▽	D3V- ●●● 3-□5-O-△▽
OF max.	1.27 N {130gf}	1.08 N {110gf}	0.69 N {70gf}
RF min.	0.12 N {12gf}	0.13 N {13gf}	0.06 N {6gf}
PT max.	9.0 mm		
OT min.	2.0 mm		
MD max.	2.8 mm (F gap type) or 2.0 mm (G gap type)		
OP	15.2 +2.6/-3.2 mm		

Model	D3V- ●●● 3-□4B-O-△▽	D3V- ●●● 3-□4A-O-△▽	D3V- ●●● 3-□4-O-△▽	D3V- ●●● 3-□3-O-△▽
OF max.	0.47N {48gf}	0.44N {45gf}	0.34N {35gf}	0.20 N {20gf}
RF min.	0.03N {3gf}		---	
PT max.	9.0 mm			
OT min.	2.0 mm			
MD max.	2.0 mm (G gap type)		2.8 mm (F gap type) or 2.0 mm (G gap type)	
OP	15.2 +2.6/-3.2 mm			

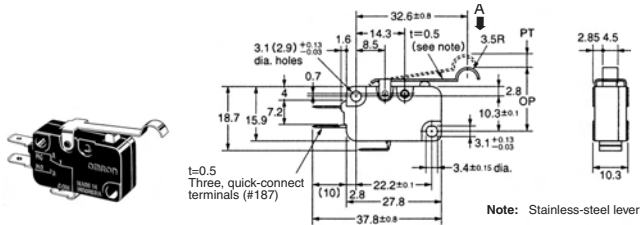
Model	D3V- ●●● 3M-□6-O-△▽	D3V- ●●● 3M-□5B-O-△▽	D3V- ●●● 3M-□5-O-△▽
OF max.	1.27 N {130gf}	1.08 N {110gf}	0.69 N {70gf}
RF min.	0.12 N {12gf}	0.13 N {13gf}	0.06 N {6gf}
PT max.	9.0 mm		
OT min.	2.0 mm		
MD max.	2.8 mm (F gap type) or 2.0 mm (G gap type)		
OP	15.2 +2.6/-3.2 mm		

Miniature Basic Switch (Non-Sealed) – D3V

Model	D3V-●●3M-□4B-O-△▽	D3V-●●3M-□4A-O-△▽	D3V-●●3M-□4-O-△▽	D3V-●●3M-□3-O-△▽
OF max.	0.47N {48gf}	0.44N {45gf}	0.34N {35gf}	0.20 N {20gf}
RF min.	0.03N {3gf}	0.03N {3gf}	---	
PT max.	9.0 mm		9.0 mm	
OT min.	2.0 mm		2.0 mm	
MD max.	2.0 mm (G gap type)		2.8 mm (F gap type) or 2.0 mm (G gap type)	
OP	15.2 ±2.6/-3.2 mm			

Model	D3V-●●3K-□6-O-△▽	D3V-●●3K-□5B-O-△▽	D3V-●●3K-□5-O-△▽
OF max.	0.74 N {75gf}	0.62 N {63gf}	0.34 N {35gf}
RF min.	0.07 N {7gf}	0.07 N {7gf}	0.04 N {4gf}
PT max.	15.0 mm		
OT min.	4.0 mm		
MD max.	3.8 mm (F gap type) or 3.0 mm (G gap type)		
OP	15.2±3.0 mm		

Model	D3V-●●3K-□4B-O-△▽	D3V-●●3K-□4A-O-△▽	D3V-●●3K-□4-O-△▽	D3V-●●3K-□3-O-△▽
OF max.	0.27N {28gf}	0.20N {20gf}	0.20N {20gf}	0.10 N {10gf}
RF min.	---	---	---	
PT max.	15.0 mm		15.0 mm	
OT min.	4.0 mm		4.0 mm	
MD max.	3.0 mm (G gap type)		3.8 mm (F gap type) or 3.0 mm (G gap type)	
OP	15.2±3.0 mm			



Simulated Roller Lever Models

Model	D3V-●●4-□6-O-△▽	D3V-●●4-□5B-O-△▽	D3V-●●4-□5-O-△▽
OF max.	2.45 N {250gf}	2.26 N {230gf}	1.23 N {125gf}
RF min.	0.25 N {25gf}	0.25 N {25gf}	0.14 N {15gf}
PT max.	4.0mm		
OT min.	1.6 mm		
MD max.	1.5 mm (F gap type) or 0.8 mm (G gap type)		
OP	18.7±1.2 mm		

Model	D3V-●●4-□4B-O-△▽	D3V-●●4-□4A-O-△▽	D3V-●●4-□4-O-△▽	D3V-●●4-□3-O-△▽
OF max.	0.96N {98gf}	0.83N {85gf}	0.59N {60gf}	0.29 N {30gf}
RF min.	0.05N {5gf}	0.07N {7gf}	0.06N {6gf}	---
PT max.	4.0mm		4.0mm	
OT min.	1.6 mm		1.6 mm	
MD max.	0.8 mm (G gap type)		1.5 mm (F gap type) or 0.8 mm (G gap type)	
OP	18.7±1.2 mm			

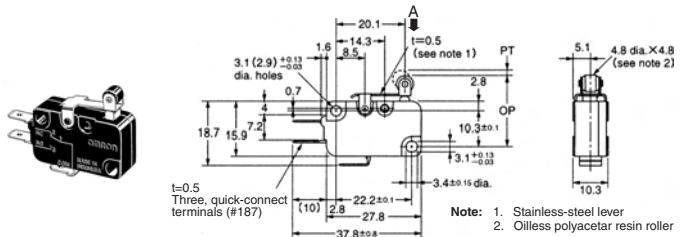
Miniature Basic Switch (Non-Sealed) – D3V

Model	D3V-●●4M-□6-O-△▽	D3V-●●4M-□5B-O-△▽	D3V-●●4M-□5-O-△▽
OF max.	2.45 N {250gf}	2.26 N {230gf}	1.23 N {125gf}
RF min.	0.25 N {25gf}	0.25 N {25gf}	0.14 N {15gf}
PT max.	4.0 mm		
OT min.	1.6 mm		
MD max.	1.5 mm (F gap type) or 0.8 mm (G gap type)		
OP	18.7±1.2 mm		

Model	D3V-●●4M-□4B-O-△▽	D3V-●●4M-□4A-O-△▽	D3V-●●4M-□4-O-△▽	D3V-●●4M-□3-O-△▽
OF max.	0.96N {98gf}	0.83N {85gf}	0.59N {60gf}	0.29 N {30gf}
RF min.	0.05N {5gf}	0.07N {7gf}	0.06N {6gf}	---
PT max.	4.0 mm			
OT min.	1.6 mm			
MD max.	0.8 mm (G gap type)		1.5 mm (F gap type) or 0.8 mm (G gap type)	
OP	18.7±1.2 mm			

Model	D3V-●●4K-□6-O-△▽	D3V-●●4K-□5B-O-△▽	D3V-●●4K-□5-O-△▽
OF max.	1.47 N {150gf}	1.27 N {130gf}	0.74 N {75gf}
RF min.	0.15 N {15gf}	0.15 N {15gf}	0.10 N {10gf}
PT max.	8.0 mm		
OT min.	1.5 mm		
MD max.	3.5 mm (F gap type) or 3.0 mm (G gap type)		
OP	18.7±1.2 mm		

Model	D3V-●●4K-□4B-O-△▽	D3V-●●4K-□4A-O-△▽	D3V-●●4K-□4-O-△▽	D3V-●●4K-□3-O-△▽
OF max.	0.54N {55gf}	0.54N {55gf}	0.39N {40gf}	0.20 N {20gf}
RF min.	0.02N {2gf}	0.03N {3gf}	0.03N {3gf}	---
PT max.	8.0 mm		8.0 mm	
OT min.	1.5 mm		1.5 mm	
MD max.	3.0 mm (G gap type)		3.5 mm (F gap type) or 3.0 mm (G gap type)	
OP	18.7±1.2 mm			



Short Hinge Roller Lever Models

Model	D3V-●●5-□6-O-△▽	D3V-●●5-□5B-O-△▽	D3V-●●5-□5-O-△▽
OF max.	4.71 N {480gf}	3.92 N {400gf}	2.35 N {240gf}
RF min.	0.49 N {50gf}	0.48 N {48gf}	0.49 N {50gf}
PT max.	1.6 mm		
OT min.	0.8 mm		
MD max.	0.6 mm (F gap type) or 0.5 mm (G gap type)		
OP	20.7±0.6 mm		

Miniature Basic Switch (Non-Sealed) – D3V

Model	D3V-●●5-□4B-O-△▽	D3V-●●5-□4A-O-△▽	D3V-●●5-□4-O-△▽	D3V-●●5-□3-O-△▽
OF max.	1.69N {172gf}	1.42N {145gf}	1.18N {120gf}	0.59 N {60gf}
RF min.	0.12N {12gf}	0.2N {20gf}	0.15N {15gf}	0.06N {6gf}
PT max.	1.6 mm		1.6 mm	
OT min.	0.8 mm		0.8 mm	
MD max.	0.5 mm (G gap type)		0.6 mm (F gap type) or 0.5 mm (G gap type)	
OP	20.7±0.6 mm			

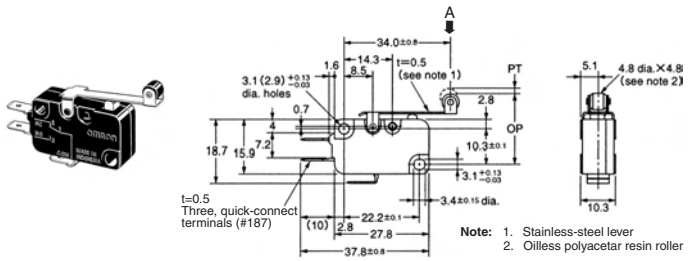
Model	D3V-●●5M-□6-O-△▽	D3V-●●5M-□5B-O-△▽	D3V-●●5M-□5-O-△▽	
OF max.	4.71 N {480gf}	3.92 N {400gf}	2.35 N {240gf}	
RF min.	0.49 N {50gf}	0.48 N {48gf}	0.49 N {50gf}	
PT max.	1.6 mm			
OT min.	0.8 mm			
MD max.	0.6 mm (F gap type) or 0.5 mm (G gap type)			
OP	20.7±0.6 mm			

Model	D3V-●●5M-□4B-O-△▽	D3V-●●5M-□4A-O-△▽	D3V-●●5M-□4-O-△▽	D3V-●●5M-□3-O-△▽
OF max.	0.69N {172gf}		1.18N {120gf}	0.59 N {60gf}
RF min.	0.12N {12gf}	0.2N {20gf}	0.15N {15gf}	0.06N {6gf}
PT max.	1.6 mm		1.6 mm	
OT min.	0.8 mm		0.8 mm	
MD max.	0.5 mm (G gap type)		0.6 mm (F gap type) or 0.5 mm (G gap type)	
OP	20.7±0.6 mm			

Model	D3V-●●5K-□6-O-△▽	D3V-●●5K-□5B-O-△▽	D3V-●●5K-□5-O-△▽	
OF max.	2.51 N {256gf}	2.21 N {225gf}	1.57 N {160gf}	
RF min.	0.25 N {25gf}	0.25 N {25gf}	0.15 N {15gf}	
PT max.	2.6 mm			
OT min.	2.0 mm			
MD max.	0.9 mm (F gap type) or 0.8 mm (G gap type)			
OP	20.7±1.0 mm			

Model	D3V-●●5K-□4B-O-△▽	D3V-●●5K-□4A-O-△▽	D3V-●●5K-□4-O-△▽	D3V-●●5K-□3-O-△▽
OF max.	0.94N {96gf}	0.98N {100gf}	0.78N {80gf}	0.39 N {40gf}
RF min.	0.05N {5gf}	0.08N {8gf}	0.08N {8gf}	0.04N {4gf}
PT max.	2.6 mm		2.6 mm	
OT min.	2.0 mm		2.0 mm	
MD max.	0.8 mm (G gap type)		0.9 mm (F gap type) or 0.8 mm (G gap type)	
OP	20.7±1.0 mm			

Miniature Basic Switch (Non-Sealed) – D3V



Hinge Roller Lever Models

Model	D3V-●●●6-□6-O-△▽	D3V-●●●6-□5B-O-△▽	D3V-●●●6-□5-O-△▽
OF max.	2.45 N {250gf}	2.06 N {210gf}	1.23 N {150gf}
RF min.	0.25 N {25gf}	0.25 N {25gf}	0.14 N {14gf}
PT max.	4.0 mm		
OT min.	1.6 mm		
MD max.	1.5 mm (F gap type) or 0.8 mm (G gap type)		
OP	20.7±1.2 mm		

Model	D3V-●●●6-□4B-O-△▽	D3V-●●●6-□4A-O-△▽	D3V-●●●6-□4-O-△▽	D3V-●●●6-□3-O-△▽
OF max.	0.88N {90gf}	0.49N {80gf}	0.59N {60gf}	0.29 N {30gf}
RF min.	0.06N {6gf}	0.03N {5gf}	0.06N {6gf}	---
PT max.	4.0 mm			
OT min.	1.6 mm			
MD max.	0.8 mm (G gap type)		1.5 mm (F gap type) or 0.8 mm (G gap type)	
OP	20.7±1.2 mm			

Model	D3V-●●●6M-□6-O-△▽	D3V-●●●6M-□5B-O-△▽	D3V-●●●6M-□5-O-△▽
OF max.	2.45 N {250gf}	2.06 N {210gf}	1.23 N {150gf}
RF min.	0.25 N {25gf}	0.25 N {25gf}	0.14 N {14gf}
PT max.	4.0 mm		
OT min.	1.6 mm		
MD max.	1.5 mm (F gap type) or 0.8 mm (G gap type)		
OP	20.7±1.2 mm		

Model	D3V-●●●6M-□4B-O-△▽	D3V-●●●6M-□4A-O-△▽	D3V-●●●6M-□4-O-△▽	D3V-●●●6M-□3-O-△▽
OF max.	0.88N {90gf}	0.49N {80gf}	0.59N {60gf}	0.29 N {30gf}
RF min.	0.06N {6gf}	0.03N {5gf}	0.06N {6gf}	---
PT max.	4.0 mm			
OT min.	1.6 mm			
MD max.	0.8 mm (G gap type)		1.5 mm (F gap type) or 0.8 mm (G gap type)	
OP	20.7±1.2 mm			

Model	D3V-●●●6K-□6-O-△▽	D3V-●●●6K-□5B-O-△▽	D3V-●●●6K-□5-O-△▽
OF max.	1.32 N {135gf}	1.18 N {120gf}	0.74 N {75gf}
RF min.	0.14 N {14gf}	0.14 N {14gf}	0.10 N {10gf}
PT max.	7.2 mm		
OT min.	2.0 mm		
MD max.	2.7 mm (F gap type) or 2.0 mm (G gap type)		
OP	20.7±2.2 mm		

Model	D3V-●●■6K-□4B-O-△▽	D3V-●●■6K-□4A-O-△▽	D3V-●●■6K-□4-O-△▽	D3V-●●■6K-□3-O-△▽
OF max.	0.49N {50gf}	0.49N {50gf}	0.39N {40gf}	0.20 N {20gf}
RF min.	0.03N {3gf}	0.03N {3gf}	0.03N {3gf}	---
PT max.	7.2 mm		7.2 mm	
OT min.	2.0 mm		2.0 mm	
MD max.	2.0 mm (G gap type)		2.7mm (F gap type) or 2.0 mm (G gap type)	
OP	20.7±2.2 mm			

Precautions

■ 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.

■ Correct Use

Mounting

Use two M3 mounting screws with an appropriate screwdriver to mount the switch. Tighten the screws to a torque of 0.39 to 0.59 N · m {4 to 6 kgf · cm}.

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.

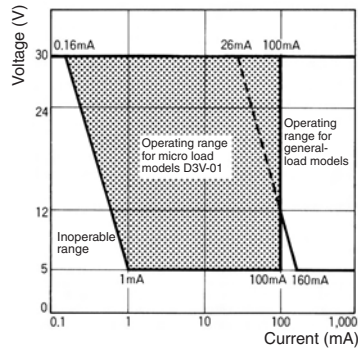
Insulation Distance

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 Micro Loads

Using a model for ordinary loads to open or close the contact of a micro load circuit may result faulty contact. Use models that operate in the following range. However, even when using micro load models within the operating range shown below, if inrush current occurs when the contact is opened or closed, it may increase contact wear and so decrease life expectancy. Therefore, insert a contact protection circuit where necessary.

The minimum applicable load is the N-level reference value. This value indicates the malfunction reference level for the reliability level of 60% (λ , 60). The equation, λ 60 = 0.5×10^{-6} /operations indicates that the estimated malfunction rate is less than 1/2,000,000 operations with a reliability level of 60%.



Solder Terminal Approval Conditions

Soldering iron can be used. Soldering hook hole available.
Soldering terminal types 1 and 2 are met.

ALL DIMENSIONS SHOWN ARE IN MILLIMETRES.
To convert millimetres into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.