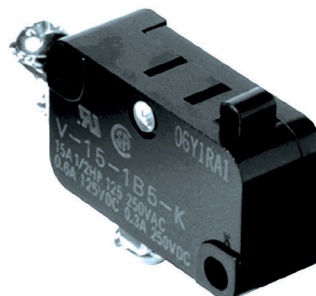


Snap Action Switch



General Purpose Snap Action Switch

- Industry standard design with 10/15 A ratings
- Long service life of 50,000,000 operations minimum (mechanical)
- RoHS Compliant



Ordering Information








■ Thermoset Material

(●: standard. ○: available on request)

Remarks	Ratings	Common terminal position	Contact gap		Terminal shape (see note)					OF max					Model
			1 mm	0.5 mm	A	C2	C	B	E	15	25	100	200	400	
Mounted with 2.9 mm dia. screws. The switch unit is housed in a thermoset case, and has high versatility in applications.	15 A, 250 V	Bottom	○	●	●	●	○	○	○	-	-	○	●	○	V-15
	10 A, 250 V	Bottom	○	●	●	●	○	○	○	-	-	●	●	-	V-10

- Note:** A: Solder/quick connect terminal (#187)
 C2: Quick connect terminal (#187)
 C: Quick connect terminal (#250)
 B: Screw terminal
 E: Short solder terminal

Ordering Information - continued from previous page

Actuator	Common terminal position	Contact form	Connect terminal	Model		
				Rated current		
				15 A	10 A	
				200 grams	200 grams	100 grams
Pin plunger 	Bottom	SPDT	A	V-15G-1A5-K	V-10G-1A5-K	V-10G-1A4-K
			C2	V-15G-1C25-K	V-10G-1C25-K	V-10G-1C24-K
			C	V-15G-1C5-K	—	—
			B	V-15G-1B5-K	V-10G-1B5-K	V-10G-1B4-K
			E	V-15G-1E5-K	—	V-10G-1E4-K
		SPST-NC	A	V-15G-2A5-K	V-10G-2A5-K	V-10G-2A4-K
			C2	V-15G-2C25-K	V-10G-2C25-K	V-10G-2C24-K
			C	V-15G-2C5-K	—	—
		SPST-NO	A	V-15G-3A5-K	V-10G-3A5-K	V-10G-3A4-K
	C2		V-15G-3C25-K	V-10G-3C25-K	V-10G-3C24-K	
	C		V-15G-3C5-K	—	—	
	Side	SPDT	A	V-15G-4A5-K	V-10G-4A5-K	V-10G-4A4-K
B			—	V-10G-5A5-K	V-10G-5A4-K	
A			V-15G-6A5-K	V-10G-6A5-K	V-10G-6A4-K	
Short hinge lever 	Bottom	SPDT	A	—	V-10G1-1A5-K	V-10G1-1A4-K
			C2	V-15G1-1C25-K	V-10G1-1C25-K	V-10G1-1C24-K
			B	—	V-10G1-1B5-K	V-10G1-1B4-K
			E	V-15G1-1E5-K	V-10G1-1E5-K	V-10G1-1E4-K
Hinge lever 	Bottom	SPDT	A	V-15G2-1A5-K	V-10G2-1A5-K	V-10G2-1A4-K
			C2	V-15G2-1C25-K	V-10G2-1C25-K	V-10G2-1C24-K
			B	—	V-10G2-1B5-K	V-10G2-1B4-K
			E	V-15G2-1E5-K	V-10G2-1E5-K	—
Long hinge lever 	Bottom	SPDT	A	V-15G3-1A5-K	V-10G3-1A5-K	V-10G3-1A4-K
			C2	V-15G3-1C25-K	V-10G3-1C25-K	V-10G3-1C24-K
			B	V-15G3-1B5-K	V-10G3-1B5-K	V-10G3-1B4-K
			E	—	V-10G3-1E5-K	V-10G3-1E4-K
Simulated roller lever 	Bottom	SPDT	A	V-15G4-1A5-K	V-10G4-1A5-K	V-10G4-1A4-K
			C2	V-15G4-1C25-K	V-10G4-1C25-K	V-10G4-1C24-K
			B	—	V-10G4-1B5-K	V-10G4-1B4-K
			E	—	V-10G4-1E5-K	V-10G4-1E4-K
Short hinge roller lever 	Bottom	SPDT	A	V-15G5-1A5-K	V-10G5-1A5-K	V-10G5-1A4-K
			C2	V-15G5-1C25-K	V-10G5-1C25-K	V-10G5-1C24-K
			B	V-15G5-1B5-K	V-10G5-1B5-K	V-10G5-1B4-K
Hinge roller lever 	Bottom	SPDT	A	V-15G6-1A5-K	V-10G6-1A5-K	V-10G6-1A4-K
			C2	V-15G6-1C25-K	—	V-10G6-1C24-K
			B	V-15G6-1B5-K	V-10G6-1B5-K	V-10G6-1B4-K
			E	V-15G6-1E5-K	V-10G6-1E5-K	V-10G6-1E4-K

- Note:**
1. For SPST-NC and SPST-NO with levers consult Omron.
 2. An insulation barrier is available upon request for thermoplastic types.

Specifications

■ Characteristics

		V-15	V-10
Operating speed		0.1 mm to 1 m/second (0.004 to 39.4 in/second) at pin plunger	
Operating frequency	Mechanical	600 operations per minute	
	Electrical	60 operations per minute	
Contact resistance		15 mΩ max. (initial)	30 mΩ max. (initial)
Insulation resistance		100 MΩ min. at 500 VDC	
Dielectric strength (VAC)		1,000 VAC, between non-continuous terminals 1,500 VAC, between each terminal and ground	
Vibration (see note 2)	Malfunction durability	10 to 55 Hz, 1.5 mm double amplitude	
Shock (see note 2)	Mechanical durability	1,000 m/s ² min. (approx. 100 g)	
	Malfunction durability	300 m/s ² min. (approx. 30 g)	200 m/s ² min. (approx. 20 g)
Ambient temperature	Operating	-25° to 80° C	
Humidity	Operating	85% RH max	
Service life	Mechanical	50,000,000 operations min.	
	Electrical	100,000 operations min.	300,000 operations min.
Weight		Approx. 6.2 g (pin plunger type)	

- Note:** 1. Data shown are of initial value.
2. The values indicated here are of the pin plunger type.

■ Operating Characteristics

Characteristics	Part number					
	V-15G-1□5-K V-10G-1□5-K	V-10G-1□4-K	V-15G-1□5-K V-10G-1□5-K	V-10G1-1□4-K	V-15G2-1□5-K V-10G2-1□5-K	V-10G2-1□4-K
OF max.	200 g	100 g	200 g	100 g	125 g	60 g
RF min.	50 g	20 g	50 g	15 g	14 g	6 g
PT max.	1.2 mm (0.05 in)		1.5 mm (0.06 in)		3.3 mm (0.13 in)	
OT min.	1.3 mm (0.05 in)		1.0 mm (0.04 in)		2.3 mm (0.09 in)	
MD max.	0.3 mm (0.01 in)		0.5 mm (0.02 in)		0.8 mm (0.03 in)	
OP	14.7±0.4 mm (0.58±0.02 in)		15.2±0.5 mm (0.60±0.02 in)		15.2 ^{+2.6} _{-3.2} mm (0.60 ^{+0.10} _{-0.13} in)	15.2±1.2 mm (0.60±0.05 in)

Characteristics	Part number							
	V-15G3-1□5-K V-10G3-1□5-K	V-10G3-1□4-K	V-15G5-1□5-K V-10G5-1□5-K	V-10G4-1□4-K	V-15G5-1□5-K V-10G5-1□5-K	V-10G5-1□4-K	V-15G6-1□5-K V-10G6-1□5-K	V-10G6-1□4-K
OF max.	70 g	35 g	125 g	60 g	240 g	120 g	125 g	60 g
RF min.	6 g	–	14 g	6 g	50 g	15 g	14 g	6 g
PT max.	9.0 mm (0.35 in)	7.6 mm (0.30 in)	3.3 mm (0.13 in)		1.5 mm (0.06 in)		3.3 mm (0.13 in)	
OT min.	3.0 mm (0.12 in)	3.2 mm (0.13 in)	2.3 mm (0.09 in)		1.0 mm (0.04 in)		2.3 mm (0.09 in)	
MD max.	2.0 mm (0.08 in)		0.8 mm (0.03 in)		0.5 mm (0.02 in)		0.8 mm (0.03 in)	
OP	15.2±2.6 mm (0.60±0.10 in)		18.7±1.2 mm (0.74±0.05 in)		20.7±0.6 mm (0.81±0.02 in)		20.7±1.6 mm (0.81±0.06 in)	

Operating Characteristics - V Series Accessories

Part number	VAL	VAL2	VAV	VAV2	VAM	VAM-1
Switch	V-15G-1A5-K					
OF max.	230 g		35 g	75 g	200 g	300 g
RF min.	50 g		4 g	9 g	30 g	40 g
OT max.	0.8 mm (0.03 in)		3.6 mm (0.14 in)	1.5 mm (0.06 in)	7 mm (0.28 in)	5 mm (0.20 in)
MD min.	0.4 mm (0.02 in)		4.7 mm (0.19 in)	1.2 mm (0.05 in)	7 mm (0.28 in)	6 mm (0.24 in)
FP max.	17 mm (0.67 in)	22.6 mm (0.89 in)	–	–	45 mm (1.78 in)	47 mm (1.85 in)
OP	14.9±0.5 mm (0.59±0.02 in)	20.5±0.5 mm (0.81±0.02 in)	Approx. 10.6 mm (0.42 in)	18.6±1.6 mm (0.73±0.06 in)	20±9 mm (0.79±0.35 in)	30±5 mm (1.18±0.20 in)

Ratings

Type	Rated voltage	Non-inductive load (A)				Inductive load (A)				Inrush current Non-inductive & Inductive NC/NO
		Resistive load		Lamp load		Inductive load		Motor load		
		NC	NO	NC	NO	NC	NO	NC	NO	
15 A	250 VAC	15	15	2	2	10	10	3	3	36 A max.
	125 VDC	0.1	0.1	–	–	–	–	–	–	
10 A	250 VAC	10	10	1.5	1.5	6	6	2	2	24 A max.
	125 VDC	0.1	0.1	–	–	–	–	–	–	

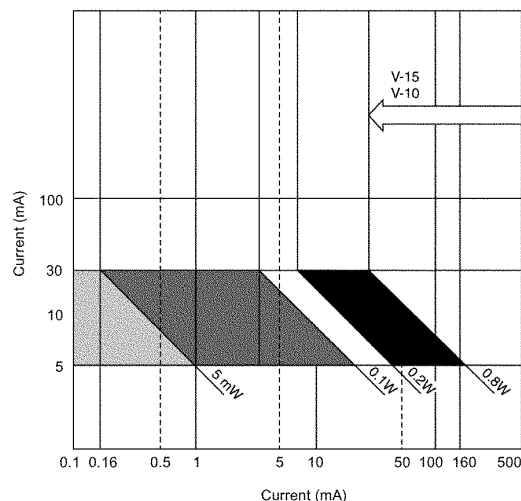
- Note:** 1. Inductive load has a power factor of 0.4 min. (AC) and a time constant of 7 milliseconds max. (DC).
 2. Lamp load has an inrush current of 10 times the steady-state current, while motor load has an inrush current of 6 times the steady-state current.

Contact Form

Common terminal position	Contact form		
	SPDT	SPST-NC*	SPST-NO*
Bottom type			
Side type			

* The SPST-NC and SPST-NO contact form types listed in the ordering information tables are for Pin Plunger models only. For information concerning lever models consult Omron.

Application load range



Approvals

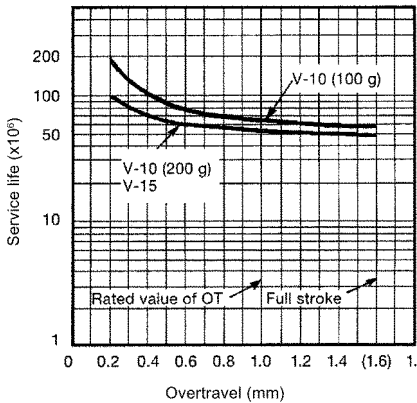
UL (File No. E41515), CSA (File No. LR21642) IEC 1058-1, EN conforms 61058-1

OF max.	Thermoset material	
	V-15	V-10
100 g	UL CSA	UL CSA
200 g	UL CSA	UL CSA
400 g	UL CSA	– –

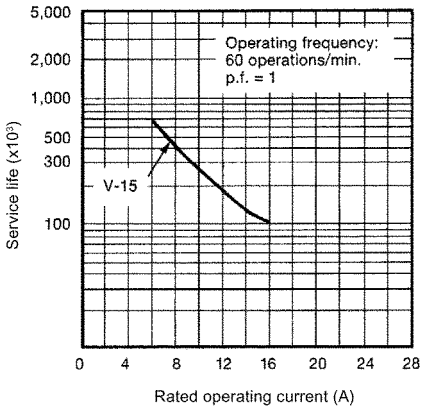
- Note:** 1. The rated values approved by each of the safety standards (e.g. UL, CSA) may be different from the performance characteristics individually defined in this catalog.
 2. Models approved by DEMKO, NEMKO, BEAB and SETI are also available. Consult OMRON for detailed information.

Engineering Data

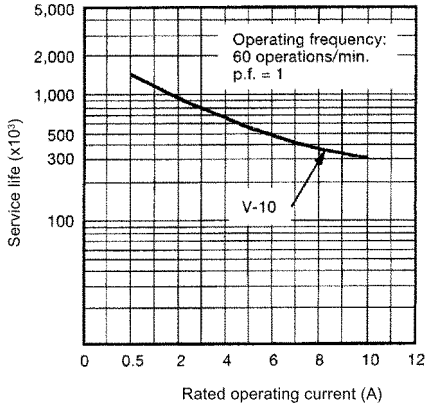
Mechanical service life
V-15, V-10



Electrical service life
V-15



Electrical service life
V-10



Dimensions

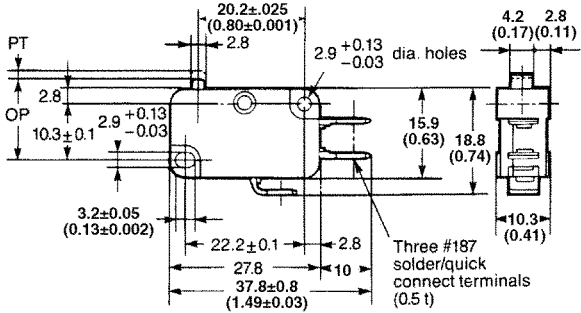
Unit: mm (inch)

The following figures show the models having quick connect terminals in the #250 series at the bottom of the case. For other terminals, please refer to "Terminals."

Note: Unless otherwise specified, a tolerance of ± 0.4 mm applies to all dimensions.

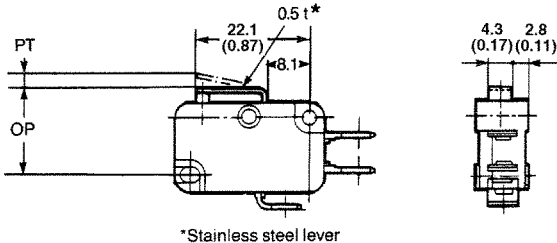
Pin Plunger

- V-15G-1□5-K
- V-10G-1□5-K
- V-10G-1□4-K



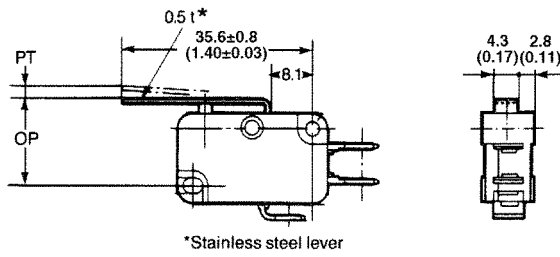
Short Hinge Lever

- V-15G1-1□5-K
- V-10G1-1□5-K
- V-10G1-1□4-K



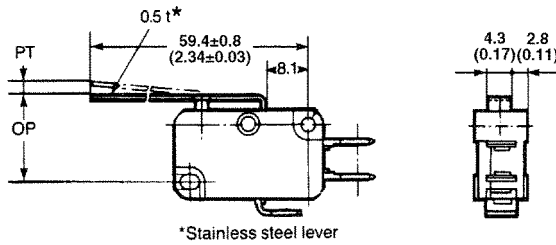
■ Hinge Lever

- V-15G2-1□5-K
- V-10G2-1□5-K
- V-10G2-1□4-K



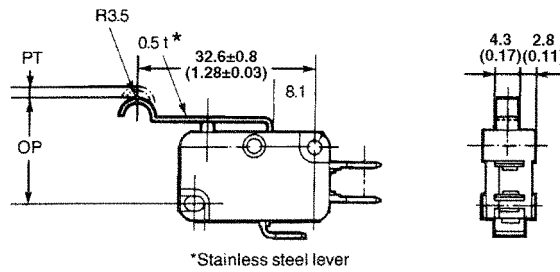
■ Long Hinge Lever

- V-15G3-1□5-K
- V-10G3-1□5-K
- V-10G3-1□4-K



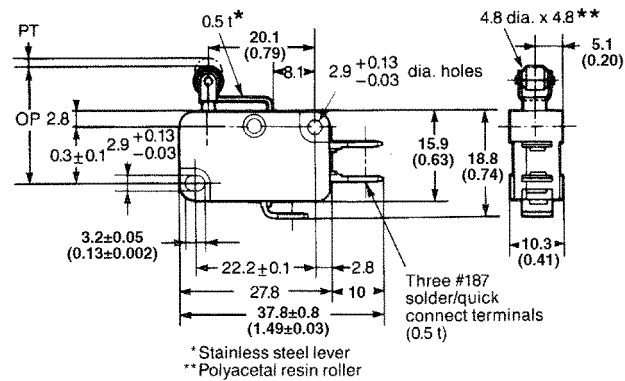
■ Simulated Roller Lever

- V-15G4-1□5-K
- V-10G4-1□5-K
- V-10G4-1□4-K



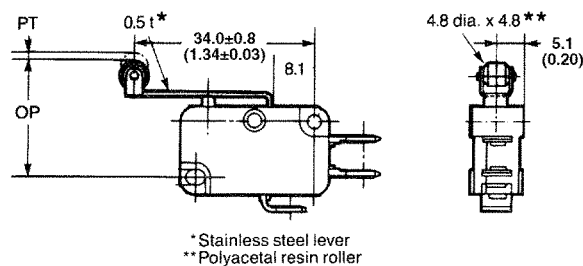
■ Short Hinge Roller Lever

- V-15G5-1□5-K
- V-10G5-1□5-K
- V-10G5-1□4-K



■ Hinge Roller Lever

- V-15G6-1□5-K
- V-10G6-1□5-K
- V-10G6-1□4-K



■ Terminals

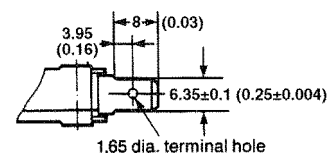
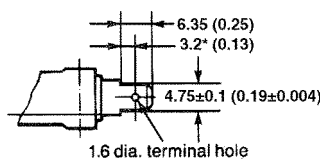
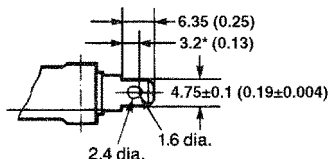
General purpose type

**Solder terminal (A)
(or quick connect terminals
#187 series)**

**Quick connect terminal (C2)
(#187 series)**

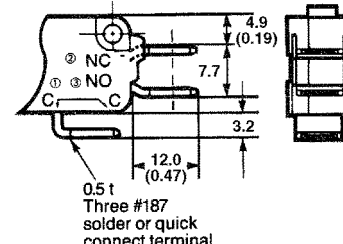
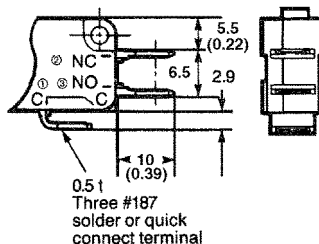
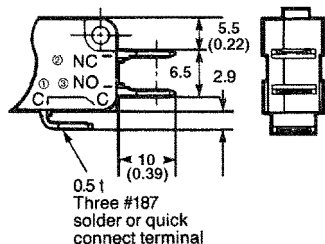
**Quick connect terminal (C)
(#250 series)**

Common terminal position

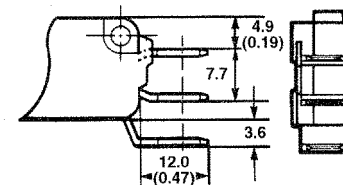
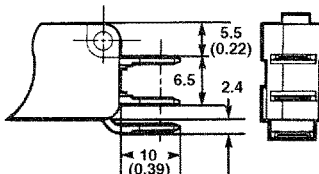
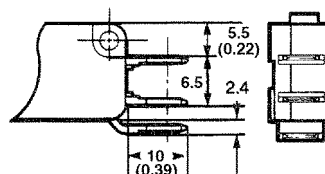


*Indicates the length to the center of the 1.6 dia. holes.

Bottom type



Side type

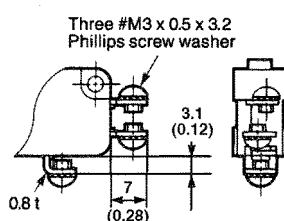
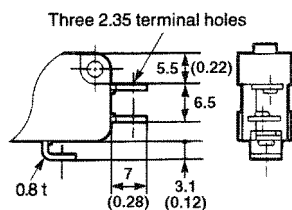


Common terminal position

Short solder terminal (E)

Screw Terminal (B)

Bottom terminal



Accessory Dimensions

■ Actuator Accessories

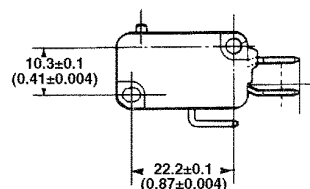
Three series of actuators are optionally available: VAL, VAM, and VAV series.

The actuators in the VAL series are designated for rotary cam operations.

The VAM series actuators are highly resistive to vibration and shock; so, they are ideal for machine tools and automatic doors where the switches are subject to heavy vibration or shock.

The VAV series actuators are highly sensitive to force. Therefore, they should be used in an application where the operating force to be applied to the switch is critical.

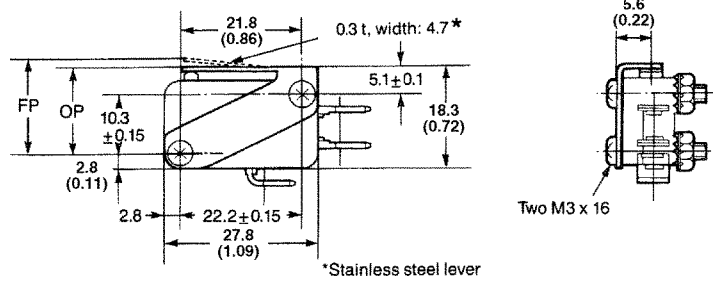
All these actuators can be mounted on all OMRON snap action switches having the following dimensions.



- Note:**
1. Unless otherwise specified, a tolerance of ± 0.4 mm applies to all dimensions.
 2. The operating characteristics above apply when the actuator is attached to V-15-1A5-K basic switch. For any other models, consult OMRON.

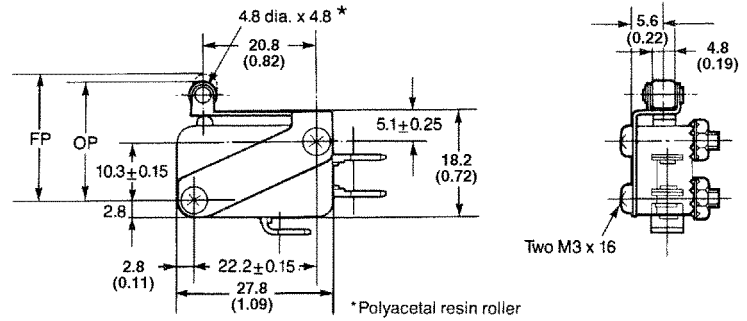
Leaf Spring

VAL



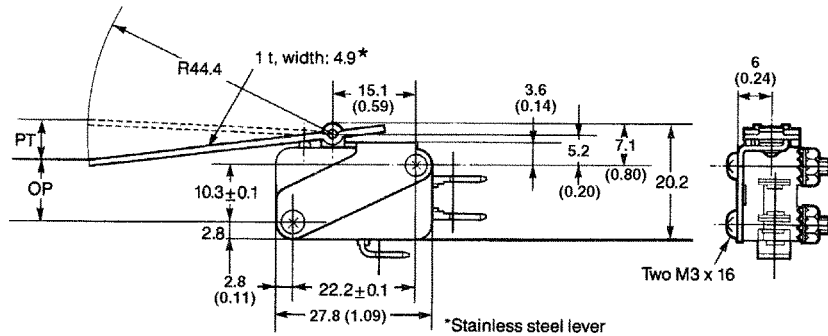
Roller Leaf Spring

VAL2



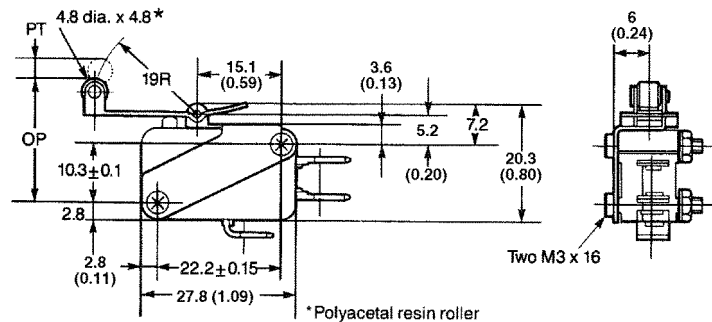
Long Hinge Lever

VAV



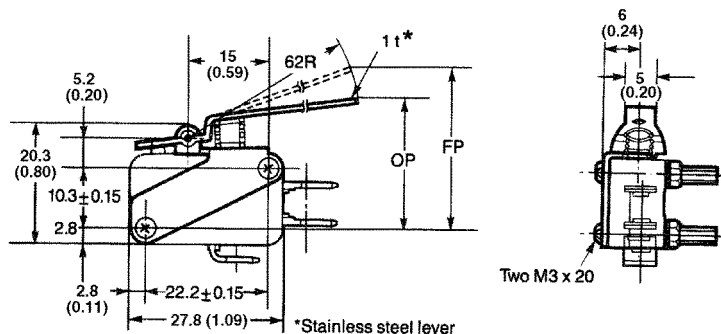
Hinge Roller Lever

VAV2



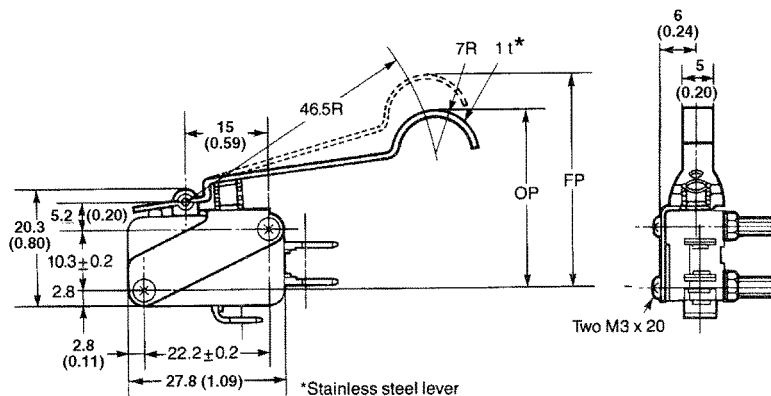
Reverse-Operation, Long Hinge Lever

VAM



Reverse-operation, Simulated Roller Lever

VAM-1



Precautions

Mounting

The switch is mounted with two M3 screws. When doing so, use an appropriate screwdriver and tighten the screws at a torque of 4 to 6 kg-cm.

To solder the lead to the terminal, apply a soldering iron rated at 60 W max. quickly (within 5 seconds) with the actuator at the free position.

Note that applying a soldering iron for too long a time or using one that is rated at more than 60 W may degrade the switch characteristics.

Operation

Make sure that the operating body pushes the switch actuator with an adequate force when the switch is to be operated, and that it does not touch the actuator when the switch is released.

Do not change the operating position by modifying the actuator.

Do not use the switch in an application where the operating speed is extremely slow or the actuator is set in the midpoint between the free position and operating position.

Install the pin plunger switch so that the operating force is applied in alignment with the stroke of the actuator. The switch should be set so that its stroke is in the range of 60 to 90% of the rated OT (minimum value) when the switch has been operated.

Omron Electronic Components, LLC

Terms and Conditions of Sales

I. GENERAL

- Definitions:** The words used herein are defined as follows.
 - Terms:** These terms and conditions
 - Seller:** Omron Electronic Components LLC and its subsidiaries
 - Buyer:** The buyer of Products, including any end user in section III through VI
 - Products:** Products and/or services of Seller
 - Including:** Including without limitation
- Offer/Acceptance:** These Terms are deemed part of all quotations, acknowledgments, invoices, purchase orders and other documents, whether electronic or in writing, relating to the sale of Products by Seller. Seller hereby objects to any Terms proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms.
- Distributor:** Any distributor shall inform its customer of the contents after and including section III of these Terms.

II. SALES

- Prices/Payment:** All prices stated are current, subject to change without notice by Seller. Buyer agrees to pay the price in effect at time of shipment. Payments for Products received are due net 30 days unless otherwise stated in the invoice. Buyer shall have no right to set off any amounts against the amount owing in respect of this invoice.
- Discounts:** Cash discounts, if any, will apply only on the net amount of invoices sent to Buyer after deducting transportation charges, taxes and duties, and will be allowed only if (a) the invoice is paid according to Seller's payment terms and (b) Buyer has no past due amounts owing to Seller.
- Interest:** Seller, at its option, may charge Buyer 1.5% interest per month or the maximum legal rate, whichever is less, on any balance not paid within the stated terms.
- Orders:** Seller will accept no order less than 200 U.S. dollars net billing.
- Currencies:** If the prices quoted herein are in a currency other than U.S. dollars, Buyer shall make remittance to Seller at the then current exchange rate most favorable to Seller; provided that if remittance is not made when due, Buyer will convert the amount to U.S. dollars at the then current exchange rate most favorable to Seller available during the period between the due date and the date remittance is actually made.
- Governmental Approvals:** Buyer shall be responsible for all costs involved in obtaining any government approvals regarding the importation or sale of the Products.
- Taxes:** All taxes, duties and other governmental charges (other than general real property and income taxes), including any interest or penalties thereon, imposed directly or indirectly on Seller or required to be collected directly or indirectly by Seller for the manufacture, production, sale, delivery, importation, consumption or use of the Products sold hereunder (including customs duties and sales, excise, use, turnover and license taxes) shall be charged to and remitted by Buyer to Seller.
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 - All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Seller), at which point title to and all risk of loss of the Products shall pass from Seller to Buyer, provided that Seller shall retain a security interest in the Products until the full purchase price is paid by Buyer;
 - Delivery and shipping dates are estimates only; and
 - Seller will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
- Claims:** Any claim by Buyer against Seller for shortage or damage to the Products occurring before delivery to the carrier must be presented in detail in writing to Seller within 30 days of receipt of shipment.

III. PRECAUTIONS

- Suitability:** IT IS THE BUYER'S SOLE RESPONSIBILITY TO ENSURE THAT ANY OMRON PRODUCT IS FIT AND SUFFICIENT FOR USE IN A MOTORIZED VEHICLE APPLICATION. BUYER SHALL BE SOLELY RESPONSIBLE FOR DETERMINING APPROPRIATENESS OF THE PARTICULAR PRODUCT WITH RESPECT TO THE BUYER'S APPLICATION INCLUDING (A) ELECTRICAL OR ELECTRONIC COMPONENTS, (B) CIRCUITS, (C) SYSTEM ASSEMBLIES, (D) END PRODUCT, (E) SYSTEM, (F) MATERIALS OR SUBSTANCES OR (G) OPERATING ENVIRONMENT. Buyer acknowledges that it alone has determined that the Products will meet their requirements of the intended use in all cases. Buyer must know and observe all prohibitions of use applicable to the Product/s.
- Use with Attention:** The followings are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible use of any Product, nor to imply that any use listed may be suitable for any Product:
 - Outdoor use, use involving potential chemical contamination or electrical interference.
 - Use in consumer Products or any use in significant quantities.

- Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
 - Systems, machines, and equipment that could present a risk to life or property.
- Prohibited Use:** NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.
 - Motorized Vehicle Application:** USE OF ANY PRODUCT/S FOR A MOTORIZED VEHICLE APPLICATION MUST BE EXPRESSLY STATED IN THE SPECIFICATION BY SELLER.
 - Programmable Products:** Seller shall not be responsible for the Buyer's programming of a programmable Product.

IV. WARRANTY AND LIMITATION

- Warranty:** Seller's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Seller (or such other period expressed in writing by Seller). SELLER MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT ALL OTHER WARRANTIES, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS.
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 - (ii) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
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