

# OMRON Basic Switches



## OMRON D2MV SERIES: ULTRA-LOW LOAD, MINIATURE BASIC SWITCH

### Specifications:

- Contact resistance: D2MV-01 - 50mW max.; D2MV-1 -- 30mW max.
- Terminal type: Solder/QC #187
- Contact material: D2MV-01 - gold alloy; D2MV-1 - silver

### Features:

- Twin crossbar contact for exceptionally high contact reliability in micro load applications



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Omron Part Number	Fig.	Actuator Type	Contact Rating	Operating Force (max.)	Price Each			
						1	25	50	100
653-D2MV-01-1C1	D2MV-01-1C1	A	Pin plunger	0.1A @ 30 VDC	10 gf	5.37	5.03	4.81	4.47
653-D2MV-01L-1C3	D2MV-01L-1C3	A	Hinge lever	0.1A @ 30 VDC	30 gf	4.48	4.10	3.92	3.57
653-D2MV-01L2-1C3	D2MV-01L2-1C3	A	Hinge roller lever	0.1A @ 30 VDC	30 gf	4.10	3.89	3.60	3.20
653-D2MV-01L111-1C3	D2MV-01L111-1C3	A	Long hinge lever	0.1A @ 30 VDC	15 gf	4.78	4.38	4.17	3.81
653-D2MV-1L111-1C3	D2MV-1L111-1C3	A	Long hinge lever	1A @ 125 VAC	15 gf	4.98	4.56	4.34	3.97

## OMRON D2MC SERIES: LOW-TORQUE ROTARY-ACTION BASIC SWITCH

### Specifications:

- Contact resistance: D2MC-01 - 100mΩ max.; D2MV-5 -- 20mΩ max.
- Contact material: D2MC-01 - gold alloy; D2MV-5 - silver alloy
- Terminal type: Quick connect #205

### Features:

- Highly reliable rotary-action switch for low torque operation.
- Long life - 10,000,000 operations



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Omron Part Number	Fig.	Direction of Actuation	Contact Rating	Operating Torque (max.)	Price Each			
						1	25	50	100
653-D2MC-5E	D2MC-5E	B	Clockwise	5A @ 250 VAC	5.1 gf · cm	5.19	5.04	4.89	4.74
653-D2MC-5F	D2MC-5F	B	Clockwise	5A @ 250 VAC	7.6 gf · cm	8.47	8.09	7.70	7.32
653-D2MC-5EL	D2MC-5EL	B	Counterclockwise	5A @ 250 VAC	5.1 gf · cm	8.04	7.87	6.52	6.40
653-D2MC-01EL	D2MC-01EL	B	Counterclockwise	500mA @ 30VDC	5.1 gf · cm	10.72	9.82	8.70	8.53
653-CAA1M	CAA1M	C	Actuator lever			.80	.77	.73	.70

## OMRON V SERIES: MINIATURE GENERAL PURPOSE BASIC SWITCHES

### Specifications:

- Contact resistance: V15 - 15mΩ; V10 - 30mΩ
- Insulation resistance: 100MΩ
- Terminal type: #187 Quick Connect

### Features:

- Switch housing is a thermostat case, giving high versatility
- Contact form: SPDT



\*SPST-NO Contact Form

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Omron Part Number	Fig.	Actuator Type	Contact Rating	Operating Force (max.)	Price Each			
						1	25	50	100
653-V10G1C24	V-10G-1C24-K	D	Pin plunger	10A @ 250 VAC	100 gf	2.01	1.80	1.36	1.28
653-V10G21C24	V-10G2-1C24-K	D	Hinge lever	10A @ 250 VAC	100 gf	1.84	1.75	1.69	1.60
653-V-10G2-1C25-K	V-10G2-1C25-K	D	Hinge lever	10A @ 250 VAC	125 gf	2.36	2.12	1.89	1.70
653-V10G31C24	V-10G3-1C24-K	D	Long hinge lever	10A @ 250 VAC	35 gf	2.16	2.05	1.97	1.88
653-V-10G5-1C24-K	V-10G5-1C24-K	D	Short hinge roller lever	10A @ 250 VAC	100 gf	2.84	2.71	2.60	2.48
653-V-10G6-1C24-K	V-10G6-1C24-K	D	Hinge roller lever	10A @ 250 VAC	100 gf	2.46	2.35	2.26	2.15
653-V10G51C25	V-10G5-1C25-K	D	Short hinge roller lever	10A @ 250 VAC	200 gf	2.27	2.21	2.10	1.87
653-V-15G-1A5-K	V-15G-1A5-K	D	Pin plunger	15A @ 250 VAC	200 gf	2.33	2.09	1.86	1.67
653-V15G1C25	V-15G-1C-25-K	D	Pin plunger	15A @ 250 VAC	200 gf	1.86	1.67	1.40	1.35
653-V15G1C25	V-15G-1C25-K	D	Pin plunger	15A @ 250 VAC	200 gf	1.86	1.67	1.40	1.35
653-V15G1C26	V-15G-1C26-K	D	Pin plunger	15A @ 250 VAC	400 gf	1.86	1.81	1.72	1.53
653-V15G21C25	V-15G2-1C25-K	D	Hinge lever	15A @ 250 VAC	100 gf	1.70	1.67	1.64	1.56
653-V15G21C26	V-15G2-1C26-K	D	Hinge lever	15A @ 250 VAC	400 gf	2.36	2.12	1.89	1.70
653-V15G31C25	V-15G3-1C25-K	D	Long hinge lever	15A @ 250 VAC	200 gf	2.01	1.81	1.51	1.46
653-V15G31C26	V-15G3-1C26-K	D	Long hinge lever	15A @ 250 VAC	400 gf	2.52	2.20	2.06	1.85
653-V15G41C25	V-15G4-1C25-K	D	Simulated roller lever	15A @ 250 VAC	200 gf	1.94	1.89	1.79	1.60
653-V15G51C25	V-15G5-1C25-K	D	Short hinge roller lever	15A @ 250 VAC	240 gf	2.46	2.33	2.26	2.15
653-V15G51C26	V-15G5-1C26-K	D	Short hinge roller lever	15A @ 250 VAC	400 gf	2.27	2.10	1.87	1.82
653-V15G61C25K	V-15G6-1C25-K	D	Hinge roller lever	15A @ 250 VAC	125 gf	2.47	2.35	2.26	2.15
653-V-103-1A4	V-103-1A4	D	Long hinge lever	10A @ 250 VAC	100 gf	3.12	3.00	2.88	2.42
653-V-10G1-1C24-K	V-10G1-1C24-K	D	Short hinge lever	10A @ 250 VAC	100 gf	2.60	2.51	2.32	1.70
653-V-10G-1B5-K	V-10G-1B5-K	D	Pin plunger	10A @ 250 VAC	200 gf	3.93	3.70	3.61	2.75
653-V-10G4-1C24-K	V-10G4-1C24-K	D	Simulated roller lever	10A @ 250 VAC	100 gf	2.21	2.05	1.99	1.80
653-V-10G4-1C25-K	V-10G4-1C25-K	D	Simulated roller lever	10A @ 250 VAC	200 gf	2.51	2.39	2.29	2.19
653-V151A5	V-15-1A5	D	Pin plunger	15A @ 250 VAC	200 gf	3.59	3.48	3.30	2.79
653-V-15-1B6	V-15-1B6	D	Pin plunger	15A @ 250 VAC	400 gf	3.77	3.60	3.45	2.78
653-V-153-1A5	V-153-1A5	D	Long hinge lever	15A @ 250 VAC	200 gf	3.08	2.73	2.54	1.85
653-V-15G1-1C25-K	V-15G1-1C25-K	D	Short hinge lever	15A @ 250 VAC	200 gf	2.36	2.20	2.17	2.06
653-V-15G-1C5-K	V-15G-1C5-K	D	Pin plunger	15A @ 250 VAC	200 gf	2.33	2.09	1.86	1.67
*653-V-15G-3C25-K	V-15G-3C25-K	D	Pin plunger	15A @ 250 VAC	200 gf	1.80	1.70	1.55	1.39
653-V15G61C26	V-15G6-1C26-K	D	Hinge roller lever	15A @ 250 VAC	400 gf	2.84	2.55	2.26	2.04
*653-V16G3C25	V-16G-3C25	D	Pin plunger	16A @ 250 VAC	200 gf	2.26	2.15	2.00	1.75
*653-V-16G-3C26	V-16G-3C26	D	Pin plunger	16A @ 250 VAC	400 gf	2.94	2.69	2.55	1.87

## OMRON VX SERIES: SPDT MINIATURE SNAP ACTION SWITCHES

### Specifications:

- Contact rating: 5A @ 250 VAC; 0.1A @ 125VAC
- Inrush current: 15A max.

### Features:

- Compact with low operating force internal hinge lever mechanism assure contact reliability



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Omron Part Number	Fig.	Actuator Type	Operating Force (max.)	Terminals	Price Each			
						1	25	50	100
653-VX-5-1A2	VX-5-1A2	E	Pin plunger	25 gf	Solder/#187 common term.	2.51	2.31	2.19	2.00
653-VX-5-1A3	VX-5-1A3	E	Pin plunger	50 gf	Solder/#187 common term.	2.51	2.31	2.19	2.00
653-VX-52-1A3	VX-52-1A3	E	Hinge lever	30 gf	Solder/#187 common term.	2.72	2.51	2.38	2.17
653-VX-52-1C23	VX-52-1C23	E	Hinge lever	30 gf	#187 Tab terminal	2.75	2.53	2.40	2.20
653-VX-53-1A3	VX-53-1A3	E	Long hinge lever	15 gf	Solder/#187 common term.	2.92	2.68	2.55	2.43
653-VX-53-1C23	VX-53-1C23	E	Long hinge lever	15 gf	#187 Tab terminal	2.92	2.63	2.45	2.33
653-VX-54-1A3	VX-53-1C23	E	Long hinge lever	15 gf	Solder/#187 common term.	2.81	2.57	2.46	2.24
653-VX-55-1A3	VX-55-1A3	E	Short hinge roller lever	50 gf	Solder/#187 common term.	3.15	2.89	2.76	2.65
653-VX-55-1C23	VX-55-1C23	E	Short hinge roller lever	50 gf	#187 Tab terminal	4.02	3.69	3.52	3.35
653-VX-56-1A3	VX-56-1A3	E	Hinge roller lever	30 gf	Solder/#187 common term.	3.95	3.55	3.16	2.68
653-VX-56-1C23	VX-56-1C23	E	Hinge roller lever	30 gf	#187 Tab terminal	3.13	2.88	2.73	2.51

**DIMENSIONS: mm**

**A**

Pin Plunger Hinge Lever

Long Hinge Lever

Hinge Roller Lever

D2MV shown with pin plunger

**B**

D2MC shown with optional lever (CAA-1M)

**C**

Optional lever CAA1M for D2MC

**D**

V shown with pin plunger

**E**

VX shown with pin plunger

Omron Basic/Snap Switches

