

# OMRON Momentary Tact Switches

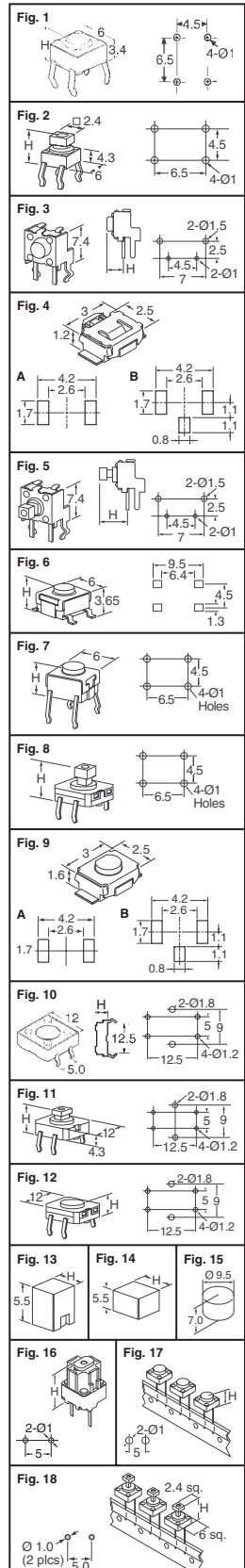


**CHARACTERISTICS:** • **Switching Capacity:** 50mA, 24VDC (resistive load) • **Contact Resistance:** 100mΩ maximum • **Bounce Time:** 5ms maximum • **Vibration:** Malfunction durability: 10 – 55Hz, 1.5mm double amplitude • **Shock:** Destruction durability: 1,000m/s<sup>2</sup> (approximate 100G) maximum; Malfunction durability: 100m/s<sup>2</sup> (approximate 10G) maximum • **Ambient Temperature:** Operating: -25°C ~ 70°C • **Service Life:** • **B3F-1 Series, B3F-3 Series** — Mechanical/Electrical: 1 x 10<sup>6</sup> (0.3 x 10<sup>6</sup>) operations minimum • **B3F-4 Series** — Mechanical/Electrical: 3 x 10<sup>6</sup> (0.3 x 10<sup>6</sup>) operations minimum • **B3S-1 Series** — Mechanical/Electrical: General-purpose type: 500,000 operations minimum; High-load type: 300,000 operations minimum • **B3W-1 Series** — Mechanical/Electrical: General-purpose type: 1,000,000 operations minimum; High-load type: 300,000 operations minimum • **B3W-4 Series** — Mechanical/Electrical: General-purpose type: 3,000,000 operations minimum; High-load type: 1,000,000 operations minimum

Fig.	Description	Dim. H (mm)	Digi-Key Part No.	Pricing			Omron Part No.	
				1	25	50		
<b>6mm (not washable)</b>								
1	Tact Switch, Low Force, Flat Actuator without Ground Terminal — 100gf	4.3	SW400-ND	.31	7.11	12.63	22.74	B3F-1000
	Tact Switch, Low Force, Flat Actuator with Ground Terminal — 100gf	4.3	SW960-ND	.37	8.23	14.64	26.35	B3F-1100
	Tact Switch, Medium Force, Flat Actuator without Ground Terminal — 150gf	4.3	SW401-ND	.37	8.23	14.64	26.35	B3F-1002
	Tact Switch, Medium Force, Flat Actuator with Ground Terminal — 150gf	4.3	SW961-ND	.37	8.23	14.64	26.35	B3F-1102
	Tact Switch, High Force, Flat Actuator without Ground Terminal — 260gf	4.3	SW793-ND	.36	8.02	14.24	25.64	B3F-1005
	Tact Switch, High Force, Flat Actuator with Ground Terminal — 260gf	4.3	SW950-ND	.71	15.88	28.24	50.82	B3F-1006
	Tact Switch, Low Force, Flat Actuator without Ground Terminal — 100gf	5.0	SW402-ND	.37	8.23	14.64	26.35	B3F-1020
	Tact Switch, Low Force, Flat Actuator with Ground Terminal — 100gf	5.0	SW962-ND	.37	8.23	14.64	26.35	B3F-1120
	Tact Switch, Medium Force, Flat Actuator without Ground Terminal — 150gf	5.0	SW403-ND	.37	8.23	14.64	26.35	B3F-1022
	Tact Switch, Medium Force, Flat Actuator with Ground Terminal — 150gf	5.0	SW849-ND	.37	8.23	14.64	26.35	B3F-1122
	Tact Switch, High Force, Flat Actuator without Ground Terminal — 260gf	5.0	SW794-ND	.41	9.07	16.12	29.01	B3F-1025
	Tact Switch, High Force, Flat Actuator with Ground Terminal — 260gf	5.0	SW963-ND	.44	9.93	17.66	31.79	B3F-1125
Tact Switch, Low Force, Flat Actuator without Ground Terminal — 100gf	9.5	SW406-ND	.41	9.07	16.12	29.01	B3F-1070	
2	Tact Switch, Low Force, Projected Actuator without Ground Terminal — 100gf	7.3	SW404-ND	.37	8.23	14.64	26.35	B3F-1050
	Tact Switch, Low Force, Projected Actuator with Ground Terminal — 100gf	7.3	SW964-ND	.37	8.23	14.64	26.35	B3F-1150
	Tact Switch, Medium Force, Projected Actuator without Ground Terminal — 150gf	7.3	SW405-ND	.37	8.23	14.64	26.35	B3F-1052
	Tact Switch, Medium Force, Projected Actuator with Ground Terminal — 150gf	7.3	SW850-ND	.37	8.23	14.64	26.35	B3F-1152
	Tact Switch, High Force, Projected Actuator without Ground Terminal — 260gf	7.3	SW795-ND	.60	13.35	23.72	42.70	B3F-1055
	Tact Switch, High Force, Projected Actuator with Ground Terminal — 260gf	7.3	SW965-ND	.61	13.35	23.72	42.70	B3F-1155
3	Tact Switch, Low Force, Flat Actuator with Ground Terminal — 100gf	3.15	SW1049-ND	.50	11.35	20.18	36.33	B3F-3100
	Tact Switch, Medium Force, Flat Actuator with Ground Terminal — 150gf	3.15	SW1050-ND	.50	11.35	20.18	36.33	B3F-3102
	Tact Switch, High Force, Flat Actuator with Ground Terminal — 260gf	3.15	SW1051-ND	.61	13.71	24.37	43.86	B3F-3105
	Tact Switch, Low Force, Right Angle, Flat Actuator — 100gf	3.85	SW407-ND	.50	11.35	20.18	36.33	B3F-3120
	Tact Switch, Medium Force, Right Angle, Flat Actuator — 150gf	3.85	SW408-ND	.50	11.35	20.18	36.33	B3F-3122
	Tact Switch, High Force, Right Angle, Flat Actuator — 260gf	3.85	SW851-ND	.61	13.66	24.28	43.71	B3F-3125
4A	Tact Switch, Right Angle, SMT without Ground	—	SW1022CT-ND†	1.08	24.19	43.01	77.41	B3U-3000P
	Tact Switch, Right Angle, SMT without Ground	—	SW1022TR-ND‡	—	2150.33/4,000	—	—	B3U-3000P
4B	Tact Switch, Right Angle, SMT with Ground	—	SW1023CT-ND†	1.08	24.19	43.01	77.41	B3U-3100P
	Tact Switch, Right Angle, SMT with Ground	—	SW1023TR-ND‡	—	2150.33/4,000	—	—	B3U-3100P
5	Tact Switch, Right Angle, SMT with Ground and Boss	—	SW1103CT-ND† <b>NEW!</b>	1.08	24.19	43.01	77.41	B3U-3100P-B
	Tact Switch, Right Angle, SMT with Ground and Boss	—	SW1103TR-ND‡ <b>NEW!</b>	—	2150.33/4,000	—	—	B3U-3100P-B
5	Tact Switch, Low Force, Right Angle, Projected Actuator — 100gf	6.15	SW409-ND	.50	11.35	20.18	36.33	B3F-3150
	Tact Switch, Medium Force, Right Angle, Projected Actuator — 150gf	6.15	SW410-ND	.50	11.35	20.18	36.33	B3F-3152
	Tact Switch, High Force, Right Angle, Projected Actuator — 260gf	6.15	SW1052-ND	.61	13.71	24.37	43.86	B3F-3155
<b>6mm Gold Plated Contacts (not washable)</b>								
1	Tact Switch, Flat Actuator without Ground Terminal — 150gf	4.3	SW787-ND	3.11	70.02	124.48	224.07	B3F-1002-G
	Tact Switch, Flat Actuator with Ground Terminal — 150gf	4.3	SW789-ND	4.54	102.20	181.69	327.05	B3F-1102-G
	Tact Switch, Flat Actuator without Ground Terminal — 150gf	5.0	SW788-ND	3.11	70.02	124.48	224.07	B3F-1022-G
	Tact Switch, Flat Actuator with Ground Terminal — 150gf	5.0	SW790-ND	3.27	73.87	130.97	235.74	B3F-1122-G
<b>6mm Process Sealed (not water washable)</b>								
6	Tact Switch, SMT Flat Actuator without Ground Terminal — 160gf	4.3	SW415-ND	.72	16.20	28.80	51.84	B3S-1000
	Tact Switch, SMT Flat Actuator without Ground Terminal — 230gf	4.3	SW416-ND	.72	16.20	28.80	51.84	B3S-1002BYSOMZ
	Tact Switch, SMT Flat Actuator with Ground Terminal — 160gf	4.3	SW971-ND	.72	16.20	28.80	51.84	B3S-1100
	Tact Switch, SMT Flat Actuator with Ground Terminal — 230gf	4.3	SW972-ND	.72	16.20	28.80	51.84	B3S-1102
7	Tact Switch Flat Actuator without Ground Terminal — 160gf	4.3	SW417-ND	.61	13.61	24.19	43.53	B3W-1000BYOMZ
	Tact Switch Flat Actuator with Ground Terminal — 160gf	4.3	SW853-ND	.60	13.35	23.72	42.70	B3W-1100
	Tact Switch Flat Actuator without Ground Terminal — 230gf	4.3	SW418-ND	.61	13.61	24.19	43.53	B3W-1002BYOMZ
	Tact Switch Flat Actuator with Ground Terminal — 230gf	4.3	SW973-ND	.60	13.35	23.72	42.70	B3W-1102
8	Tact Switch Projected Actuator without Ground Terminal — 160gf	7.3	SW419-ND	.60	13.35	23.72	42.70	B3W-1050BYOMZ
	Tact Switch Projected Actuator with Ground Terminal — 160gf	7.3	SW974-ND	.60	13.35	23.72	42.70	B3W-1150
	Tact Switch Projected Actuator without Ground Terminal — 230gf	7.3	SW420-ND	.60	13.35	23.72	42.70	B3W-1052BYOMZ
	Tact Switch Projected Actuator with Ground Terminal — 230gf	7.3	SW975-ND	.60	13.35	23.72	42.70	B3W-1152
9A	Tact Switch Contact Type without Ground Terminal — 153gf	—	SW1020CT-ND†	1.08	24.19	43.01	77.41	B3U-1000P
	Tact Switch Contact Type without Ground Terminal — 153gf	—	SW1020TR-ND‡	—	1881.54/3,500	—	—	B3U-1000P
9B	Tact Switch Contact Type with Ground Terminal — 153gf	—	SW1021CT-ND†	1.08	24.19	43.01	77.41	B3U-1100P
	Tact Switch Contact Type with Ground Terminal — 153gf	—	SW1021TR-ND‡	—	1881.54/3,500	—	—	B3U-1100P
9B	Tact Switch Contact Type with Ground Terminal and Boss	—	SW1104CT-ND† <b>NEW!</b>	1.08	24.19	43.01	77.41	B3U-1100P-B
	Tact Switch Contact Type with Ground Terminal and Boss	—	SW1104TR-ND‡ <b>NEW!</b>	—	1881.54/3,500	—	—	B3U-1100P-B
<b>12mm (not washable)</b>								
6	Tact Switch, Long Service Life, Flat Actuator without Ground Terminal — 130gf	4.3	SW800-ND	.61	13.63	24.23	43.62	B3F-5000
	Tact Switch, Long Service Life, Flat Actuator with Ground Terminal — 130gf	4.3	SW852-ND	.73	16.44	29.23	52.61	B3F-5100
	Tact Switch Standard, Flat Actuator without Ground Terminal — 130gf	4.3	SW411-ND	.50	11.35	20.18	36.33	B3F-4000
	Tact Switch Standard, Flat Actuator with Ground Terminal — 130gf	4.3	SW412-ND	.50	11.35	20.18	36.33	B3F-4005
10	Tact Switch Standard, Flat Actuator without Ground Terminal — 260gf	4.3	SW966-ND	.61	13.63	24.23	43.62	B3F-4105
	Tact Switch Standard, Projected Actuator without Ground Terminal — 130gf	7.3	SW413-ND	.50	11.35	20.18	36.33	B3F-4050
	Tact Switch Standard, Projected Actuator with Ground Terminal — 130gf	7.3	SW835-ND	.61	13.63	24.23	43.62	B3F-4150
	Tact Switch Standard, Projected Actuator without Ground Terminal — 260gf	7.3	SW414-ND	.50	11.35	20.18	36.33	B3F-4055
11	Tact Switch Standard, Projected Actuator with Ground Terminal — 260gf	7.3	SW967-ND	.61	13.63	24.23	43.62	B3F-4155
	Tact Switch, Long Service Life, Projected Actuator without Ground Terminal — 130gf	7.3	SW801-ND	.61	13.63	24.23	43.62	B3F-5050
	Tact Switch, Long Service Life, Projected Actuator with Ground Terminal — 130gf	7.3	SW970-ND	.73	16.44	29.23	52.61	B3F-5150
	Tact Switch, Gold Plated Contact, Projected Actuator without Ground Terminal — 130gf	7.3	SW969-ND	2.93	65.79	116.97	210.55	B3F-5051
<b>12mm Process Sealed (not water washable)</b>								
12	Tact Switch, Medium Force, Flat Actuator without Ground Terminal — 200gf	4.3	SW421-ND	.73	16.30	28.97	52.14	B3W-4000BYOMZ
	Tact Switch, Medium Force, Flat Actuator with Ground Terminal — 200gf	4.3	SW854-ND	.71	15.87	28.20	50.76	B3W-4100
	Tact Switch, High Force, Flat Actuator without Ground Terminal — 350gf	4.3	SW976-ND	.73	16.30	28.97	52.14	B3W-4005
	Tact Switch, Medium Force, Projected Actuator without Ground Terminal — 200gf	7.3	SW422-ND	.71	15.87	28.20	50.76	B3W-4050BYOMZ
11	Tact Switch, Medium Force, Projected Actuator with Ground Terminal — 200gf	7.3	SW839-ND	.71	15.87	28.20	50.76	B3W-4150
	Tact Switch, High Force, Projected Actuator without Ground Terminal — 350gf	7.3	SW838-ND	.71	15.87	28.20	50.76	B3W-4055BYOMZ
	Tact Switch, High Force, Projected Actuator with Ground Terminal — 350gf	7.3	SW856-ND	.71	15.87	28.20	50.76	B3W-4155
	Tact Switch, High Force, Projected Actuator without Ground Terminal — 350gf	7.3	SW968-ND	.71	15.87	28.20	50.76	B3W-4155
<b>B3F and B3W Key Caps for Projected Actuator</b>								
13	Key Cap 4 x 4mm Light Grey/Tan, Fits 6mm Projected Actuator Types	4.0	SW450-ND	.32	7.22	12.83	23.10	B3Z-1000
	Key Cap 4 x 4mm Black, Fits 6mm Projected Actuator Types	4.0	SW451-ND	.32	7.22	12.83	23.10	B3Z-1010
	Key Cap 4 x 4mm Orange, Fits 6mm Projected Actuator Types	4.0	SW845-ND	.32	7.22	12.83	23.10	B3Z-1020
	Key Cap 4 x 4mm Yellow, Fits 6mm Projected Actuator Types	4.0	SW249-ND	.32	7.22	12.83	23.10	B3Z-1030
	Key Cap 4 x 4mm Blue, Fits 6mm Projected Actuator Types	4.0	SW250-ND	.32	7.22	12.83	23.10	B3Z-1040
	Key Cap 4 x 4mm White, Fits 6mm Projected Actuator Types	4.0	SW251-ND	.32	7.22	12.83	23.10	B3Z-1060
	Key Cap 4 x 4mm Light Green, Fits 6mm Projected Actuator Types	4.0	SW953-ND	.32	7.22	12.83	23.10	B3Z-1070
	Key Cap 4 x 4mm Red, Fits 6mm Projected Actuator Types	4.0	SW252-ND	.32	7.22	12.83	23.10	B3Z-1080
	Key Cap 9 x 9mm Light Grey/Tan, Fits 12mm Projected Actuator Types	9.0	SW452-ND	.32	7.22	12.83	23.10	B3Z-1200
	Key Cap 9 x 9mm Black, Fits 12mm Projected Actuator Types	9.0	SW453-ND	.32	7.22	12.83	23.10	B3Z-1210
14	Key Cap 9 x 9mm Orange, Fits 12mm Projected Actuator Types	9.0	SW954-ND	.32	7.22	12.83	23.10	B3Z-1220
	Key Cap 9 x 9mm Yellow, Fits 12mm Projected Actuator Types	9.0	SW253-ND	.32	7.22	12.83	23.10	B3Z-1230
	Key Cap 9 x 9mm Blue, Fits 12mm Projected Actuator Types	9.0	SW254-ND	.32	7.22	12.83	23.10	B3Z-1240
	Key Cap 9 x 9mm Green, Fits 12mm Projected Actuator Types	9.0	SW846-ND	.32	7.22	12.83	23.10	B3Z-1250
	Key Cap 9 x 9mm White, Fits 12mm Projected Actuator Types	9.0	SW255-ND	.32	7.22	12.83	23.10	B3Z-1260
	Key Cap 9 x 9mm White, Fits 12mm Projected Actuator Types	9.0	SW255-ND	.32	7.22	12.83	23.10	B3Z-1260

† Tape and Reel ‡ Cut Tape

(Continued)



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