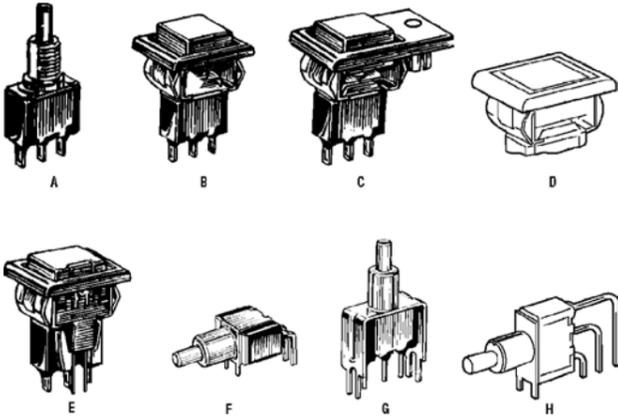


8020 Series Momentary Panel-Mounted and PC-Mounted Pushbutton Switches



Panel Mount
 Bushings: Brass, nickel plated. Plungers: Glass filled nylon. Cap and Bezel: Black nylon. Case: Red diallyl phthalate. Operating Temperature: -30°C to 65°C. Included Hardware: 2 nuts, locking ring, and lockwasher, where applicable.

8X25 Models. Contact Rating: 0.4 VA max. at 20 VAC or VDC max. **Contacts and Terminals:** Brass with gold plate over nickel plate.

8X21 Models. Contact Rating: 1 amp at 120 VAC or 28 VDC, or 0.4 VA max. at 20 VAC or VDC max. **Common Contact and Terminals:** Brass with gold plate over nickel plate. **Normally Open and Normally Closed Contacts:** Coin silver with gold plate over nickel plate.

8X6 Models. Contact Rating: 6 amps at 120 VAC or 28 VDC; 3 amps at 250 VAC (816X-UL). **Center Contact and Terminals:** Brass, silver plated. **End Contacts:** Silver, silver plated.

A "2" at the end of each part number indicates a black actuator; a "22" indicates a black actuator and black bezel; and a "223" indicates a black actuator, black bezel, and a red LED.

Snap-Action and Momentary with Solder Terminals
 Bushing: 1/4-40 uns-2 A. Terminal Spacing: 0.185".

Stock No.	Mfr.'s Type	Fig.	Description	Switch Function*	EACH		
					1-99	100-499	500-999
676-6151	8121SHGCE	A	SPDT	On-Mom.	7.45	6.58	6.07
676-9244	8125SHGCE	A	SPDT	On-Mom.	5.13	4.54	4.19
676-0400	8121SHZGE	A	SPDT	On-Mom.	5.88	5.33	4.88
676-0405	8125SHZBE	A	SPDT	On-Mom.	5.05	4.49	4.11
676-0410	8221SHZGE	A	DPDT	On-Mom.	10.86	9.85	9.01
676-0415	8225SHZBE	A	DPDT	On-Mom.	5.84	5.30	4.85
676-0420	8321SHZGE	A	3PDT	On-Mom.	13.10	12.00	10.97
676-0425	8325SHZBE	A	3PDT	On-Mom.	10.39	9.52	8.71
676-0430	8421SHZGE	A	4PDT	On-Mom.	16.65	15.26	13.95
676-0435	8425SHZBE	A	4PDT	On-Mom.	14.82	13.58	12.41

Alternate Action and Momentary with Solder Terminals
 Bushing: 1/4-40 uns-2 amps.

676-0440	8161SHZQE2	A	SPDT	On-On	5.56	4.96	4.52
676-0445	8168SHZQE2	A	SPDT	On-Mom.	6.08	5.41	4.94
676-0450	8261SHZQE2	A	DPDT	On-On	7.59	6.89	6.29

Snap Action and Momentary with Cap and Bezel
 Panel Cut Out: 0.500 x 0.600".

676-0455	8121J81ZGE22	B	SPDT	On-Mom.	7.98	7.24	6.62
676-0460	8125J81ZBE22	B	SPDT	On-Mom.	5.83	5.17	4.74
676-0470	8225J81ZBE22	B	DPDT	On-Mom.	7.62	6.92	6.33

*Mom. = Momentary.

Panel-Mount Pushbutton Switches (Continued)

Alternate Action and Momentary with Cap and Bezel

Panel Cut Out: 0.500 x 0.600".

Stock No.	Mfr.'s Type	Fig.	Description	Switch Function*	EACH		
					1-99	100-499	500-999
676-0475	8161J81ZQE22	B	SPDT	On-On	5.38	4.79	4.38
676-0480	8168J81ZQE22	B	SPDT	On-Mom.	6.61	5.89	5.38
676-0485	8261J81ZQE22	B	DPDT	On-On	10.79	9.79	8.95

Snap Action and Momentary with Cap and Bezel for LED

676-0490	8121J82ZGE22	C	SPDT	On-Mom.	8.09	7.35	6.71
676-0495	8125J82ZBE22	C	SPDT	On-Mom.	5.94	5.28	4.83

Alternate Action and Momentary with Cap and Bezel for LED

676-0510	8161J82ZQE22	C	SPDT	On-On	6.61	5.89	5.38
676-0520	8261J82ZQE22	C	DPDT	On-On	8.63	7.83	7.16

Snap Action and Momentary with Flush Cap and Square Bezel

676-6148	8121J83ZGE22	D	SPDT	On-Mom.	8.20	7.25	6.69
676-9249	8125J83ZBE22	D	SPDT	On-Mom.	5.81	5.14	4.74
676-9250	8221J83ZGE22	D	DPDT	On-Mom.	11.82	10.44	9.64

Snap Action and Momentary with Cap, Bezel and Rectangular LED

676-0525	8121J85ZGE223	E	SPDT	On-Mom.	6.46	5.87	5.36
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Alternate Action and Momentary with Cap, Bezel, and Rectangular LED
 Panel Cut Out: 0.600 x 0.500".

676-0530	8161J86ZQE223	E	SPDT	On-On	8.58	7.80	7.12
676-0535	8168J86ZQE223	E	SPDT	On-Mom.	7.37	6.70	6.12

PC-Mount Pushbutton Switches

Bushings: Brass, nickel plated. Plungers: Glass filled nylon. Cap: Black nylon. Case: Red diallyl phthalate. Operating Temperature: -30°C to 65°C.

8X25 Models. Contact Rating: 0.4 VA max. at 20 VAC or VDC max. **Contacts and Terminals:** Brass with gold plate over nickel plate.

8X21 Models. Contact Rating: 1 amp at 120 VAC or 28 VDC, or 0.4 VA max. at 20 VAC or VDC max. **Common Contact and Terminals:** Brass with gold plate over nickel plate. **Normally Open and Normally Closed Contacts:** Coin silver with gold plate over nickel plate.

8X6 models. Contact Rating: 0.4 VA max. at 20 VAC or VDC max. **Contacts and Terminals:** Brass with gold plate over nickel plate.

Snap-Action and Momentary/Right Angle Mounting

676-6150	8121SD9AGE	F	SPDT	On-Mom.	7.82	6.96	6.38
676-0540	8125SD9ABE	F	SPDT	On-Mom.	5.52	4.92	4.48
676-9251	8125SD9AGE	F	SPDT	On-Mom.	4.83	4.27	3.94
676-0545	8225SD9ABE	F	DPDT	On-Mom.	7.70	7.00	6.39

Alternate Action and Momentary/Right Angle Mounting

676-9354	8121SH9AGE	F	SPDT	On-On	7.81	6.90	6.37
676-9355	8121SH9ABE	F	SPDT	On-Mom.	7.68	6.78	6.26

Snap-Action and Momentary with Support Bracket

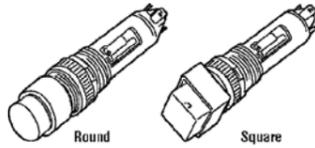
676-0565	8121SD9V3GE	G	SPDT	On-Mom.	7.63	6.94	6.35
676-0570	8125SD9V3BE	G	SPDT	On-Mom.	5.49	4.87	4.46

Snap-Action and Momentary/Vertical Right Angle Mounting with Support Bracket

676-9252	8121SD9AV2GE	H	SPDT	On-Mom.	7.93	7.01	6.46
676-9356	8125SD9AV2BE	H	SPDT	On-Mom.	5.62	4.96	4.58

*Mom. = Momentary.

8.1 mm Lighted Pushbutton Switches and Indicators



Extremely compact design, fits 0.319" (8.1) mounting hole dia., mounts with threaded ring. Round and square frames available. **Color:** Black. **Contact Rating:** 250 mA at 42 VAC or VDC. **Electrical Life:** 105 operations min. **Operating Temperature:** -25°C to 55°C. **Lamp:** T1 incandescent. **Housing:** Polyamide with solder terminals. **Complete Assembly Length:** 1.57" (40 mm). For complete assembly, order switch body, lens and lamp separately below. Other keycap/lens colors, LED lamps also available. Momentary switches are SPST N.O., maintained are SPST. **Degree of Protection:** IP40.

8.1 mm Switch Housing

Stock No.	Mfr.'s Type	Description	Switch Function*	EACH		
				1-99	100-499	500-999
676-9287	1.15116.001	SPST/NO	Off-Mom.	11.46	7.48	7.26
676-9288	1.15116.011	SPST/NO	Off-On	12.10	7.90	7.65
676-9289	1.15116.021	SPST/NO	Off-Mom.	16.73	10.92	10.60
676-9290	1.15116.031	SPST/NO	Off-On	17.70	11.56	11.19

*Mom.=Momentary. †Round. ‡Square.

Keycap — Switches Only

Stock No.	Mfr.'s Type	Description	EACH		
			1-99	100-499	500-999
676-9291	5.05510.470/1303	Round, Green	1.81	1.16	1.09
676-9292	5.05510.471/1303	Square, Red	1.81	1.16	1.09
676-9293	5.05510.471/1502	Square, Green	1.81	1.16	1.09

T1 Lamps

676-9294	1.90180.472	12 V Incandescent	6.05	4.16	3.86
676-9295	1.90180.473	24 V Incandescent	5.79	3.99	3.70