NKK SWITCHES

Switch Selection Guide

everything starts here.

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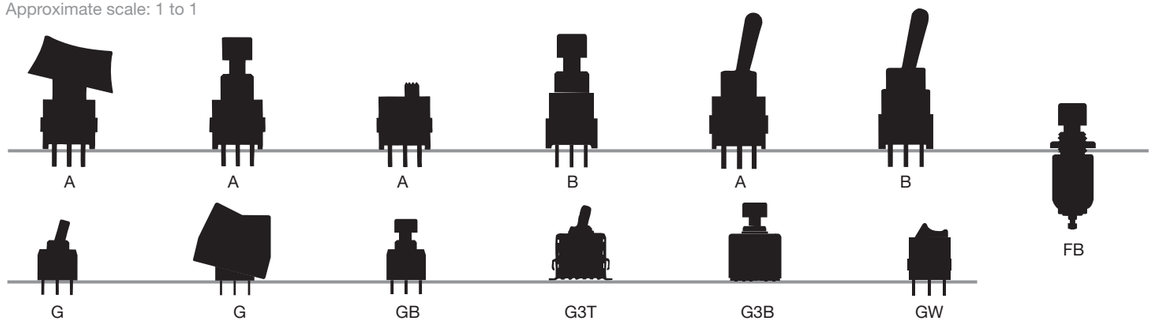
Product Overview BY SERIES

Ultra-Miniature and Subminiature

Toggles | Rockers | Pushbuttons | Slides

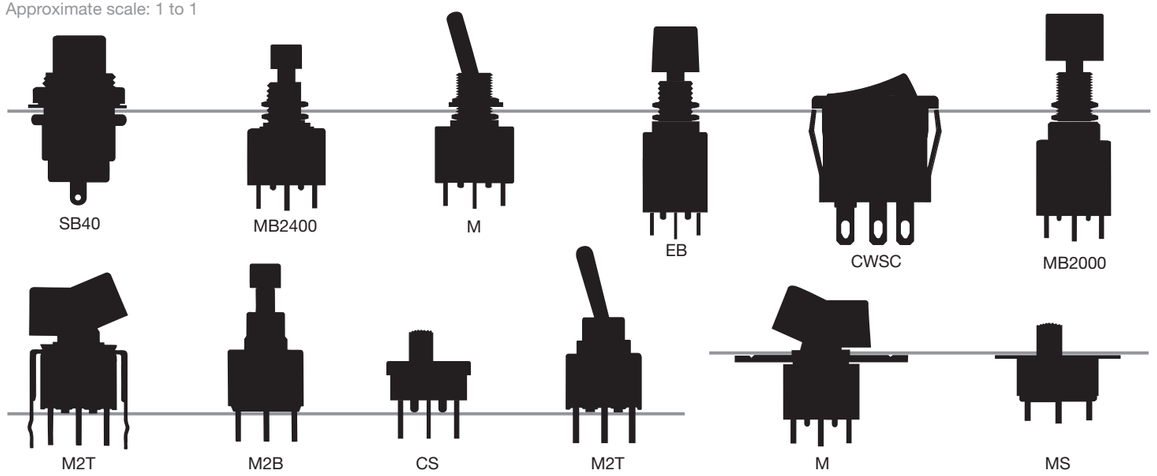
Approximate scale: 1 to 1



Miniature

Toggles | Rockers | Pushbuttons | Slides

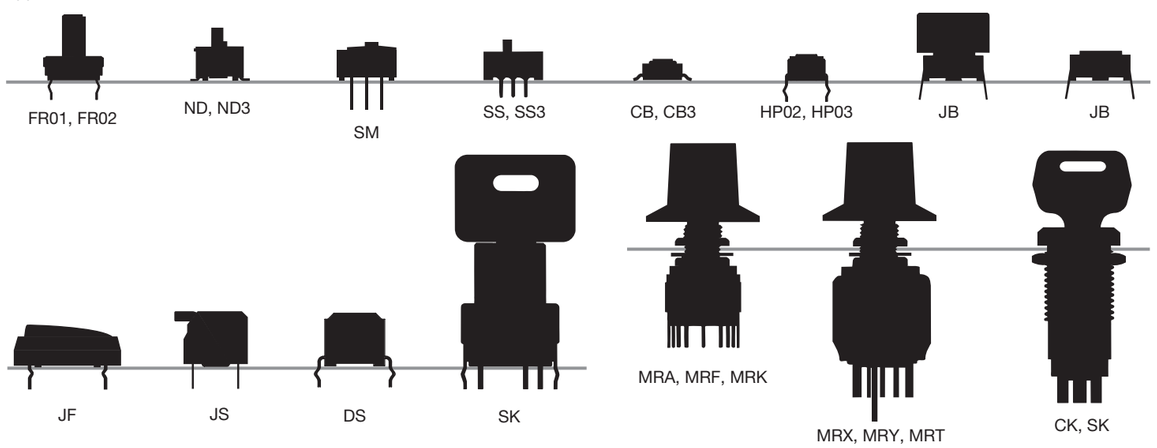
Approximate scale: 1 to 1



Specialty

Rockers | DIP Rotaries | Tactiles | Slides | Keylocks | Tilt

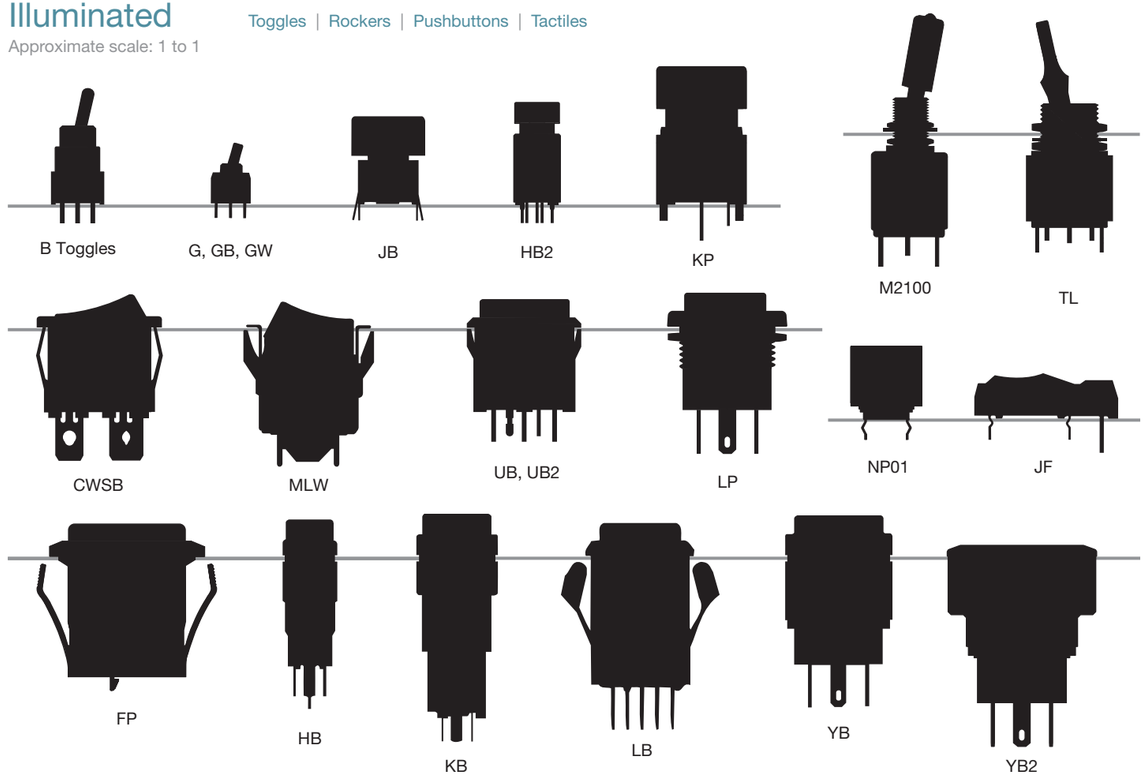
Approximate scale: 1 to 1



Illuminated

Toggles | Rockers | Pushbuttons | Tactiles

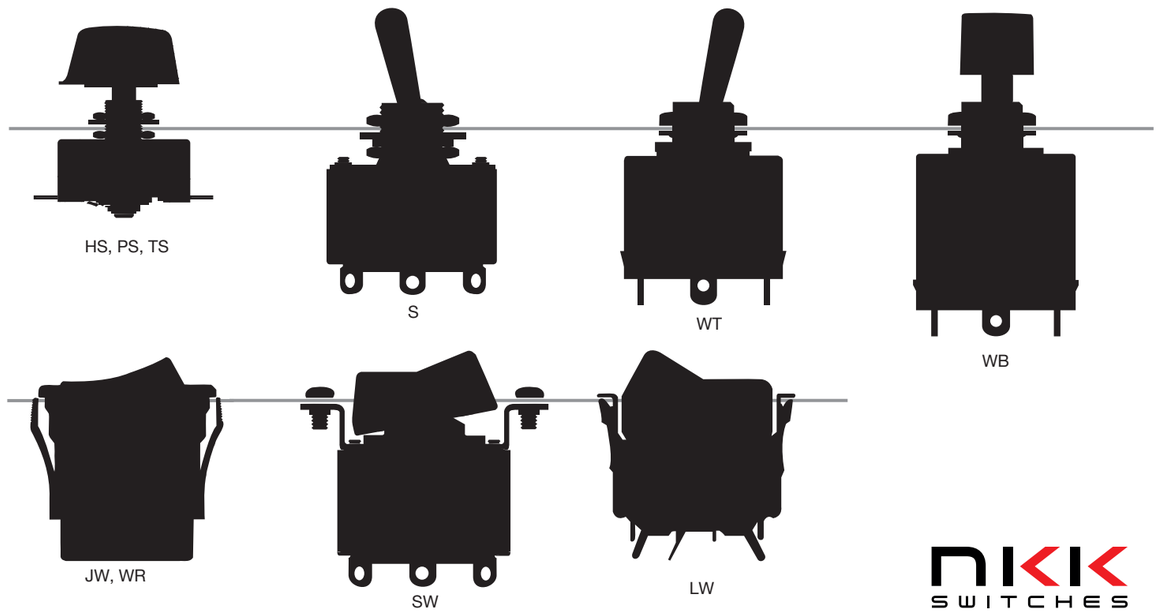
Approximate scale: 1 to 1



Standard and High Capacity

Toggles | Rockers | Pushbuttons | Rotaries

Not to scale



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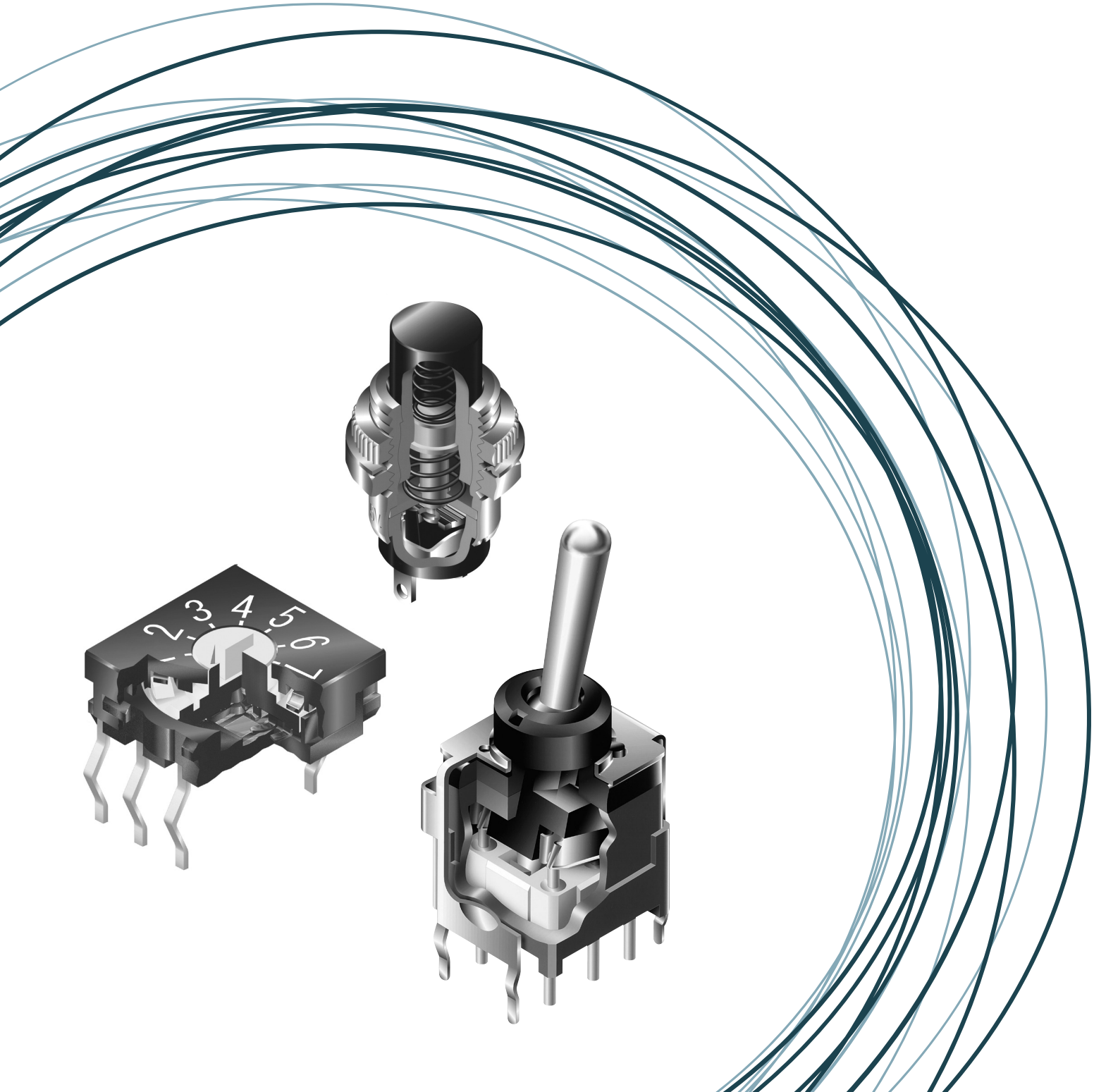
Product Overview



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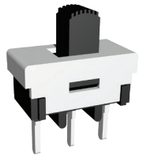
PRODUCTS BY SERIES

Toggles

Rockers

Pushbuttons



Slides

Rating/Size	**Ultra-Miniature**	**G, G3T:** 0.4VA @ 28V AC/DC	**G, GW:** 0.4VA @ 28V AC/DC	**GB, GB2, G3B:** 0.4VA @ 28V AC/DC	**JS (DIP Slide):** 25mA @ 24V DC **SM:** 500mA @ 12V DC **SS:** 0.1A @ 30V DC; 0.4VA @ 28V AC/D **SS3:** 0.4VA @ 28V AC/D
	Subminiature	**A, B:** 0.4VA @ 28V AC/DC	**A:** 0.4VA @ 28V AC/DC	**AB, BB:** 0.4VA @ 28V AC/DC **FB:** 500mA @ 125V AC; 0.4VA @ 28V AC/DC **HB:** 0.1A @ 30V AC/DC	**AS:** 0.4VA @ 28V AC/DC
	Miniature	**M, M2100, M2T:** 6A @ 125V AC; 0.4VA @ 28V AC/DC **TL:** 0.4VA @ 28V AC/DC; 6A @ 125V AC	**CWS:** 6A @ 250V AC; **CWSB, CWSC:** 9A @ 125V AC **CWT:** 6A @ 125V AC; **JWS:** 5 ~ 10A @ 125/250V AC **M, M2T:** 6A @ 125V AC; 0.4VA @ 28V AC/DC **MLW:** 5A @ 125V AC **M2100:** 6A @ 125V AC; 0.4VA @ 28V AC/DC	**EB:** 3A @ 125V AC; 0.4VA @ 28V AC/DC **KB:** 1A @ 125/250V AC; 0.4VA @ 28V AC/DC **LP01:** 3A @ 125/250V AC **M2B:** 1A @ 125V AC; 0.4VA @ 28V AC/DC **MB2000:** 6A @ 125V AC; 0.4VA @ 28V AC/DC **MB2400, SB4011:** 3A @ 125V AC; 0.4VA @ 28V AC/DC **NP01:** 0.4VA @ 28V AC/DC **UB, UB2:** 5A @ 125/250V AC; 0.4VA @ 28V AC/DC **YB, YB2:** 3A @ 125/250V AC; 0.4VA @ 28V AC/DC	**CS:** 3A @ 125V AC **FS:** 0.4VA @ 28V AC/DC **MS:** 6A @ 125V AC; 0.4VA @ 28V AC/DC
	Standard	**P, WT:** 10A @ 125V AC **S:** 5~50A @ 125V AC	**JWM:** 10A @ 125/250V AC; **JWL:** 16A @ 125/250V AC **LW:** 10A @ 125V AC; 20A @ 110V AC **P:** 10A @ 125V AC; **SW:** 15~30A @ 125V AC **WR:** 15A @ 125/250V AC	**JPM:** 10A @ 125/250V AC; **JPL:** 16A @ 125/250V AC **LB:** 3A @ 125/250V AC; 0.4VA @ 28V AC/DC **SB:** 3~15A @ 125V AC; **SCB:** 15A @ 125/250V AC **WB:** 6A @ 125V AC	–
Mounting	**PC Board**	A, B, G, G3T, M, M2100, M2T, P	A, CWS, G, GW, M, M2100, M2T	AB, BB, EB, GB, GB2, G3B, KB, LB, M2B, MB2000, MB2400, NP01, UB, UB2	AS, CS, FS, JS, MS, SM, SS, SS3
	Bushing	M, M2100, P, S, TL, WT	M2100	EB, FB, HB, KB, LB, LP01, MB2000, MB2400, SB, SB4011, SCB, WB, YB, YB2	–
	Snap-In	M2100	CWS, CWSB, CWSC, CWT, JWL, JWM, JWS, LW, M, M2100, MLW, WR	EB, JPM, JPL, KB, LB, LP01, MB2000, MB2400, UB, UB2, YB	–
	Screw	M2100	LW, M2100, SW	–	MS
	Surface Mount	G3T	–	G3B	JS02, JS04, SS3
Terminals	**Solder Lug**	M, M2100, P, S, TL, WT	CWS, CWSB, CWSC, CWT, JWL, JWM, JWS, LW, M, M2100, MLW, P, SW, WR	EB, HB, JPM, JPL, KB, LB, LP01, MB2000, MB2400, SB, SB4011, UB, UB2, WB, YB, YB2	MS
	PC	A, B, G, M, M2T, M2100, P	A, CWS, G, GW, M, M2100, M2T, P	AB, BB, EB, FB, GB, GB2, KB, LB, M2B, MB2000, MB2400, NP01, UB, UB2, YB	AS, CS, FS, JS01, JS03, MS, SM, SS
	SMT Gull Wing	G3T	–	G3B	JS02, JS04, SS3
	Quick Connect	M, M2100, P, S	CWS, CWSB, CWSC, JWL, JWM, JWS, M, M2100, P, WR	JPM, JPL, LB, LP01, MB2000, SCB, YB, YB2	–
	Wirewrap	M	M	MB2000, MB2400	–
	Wire Lead	WT	WR	WB	–
	Screw	S, WT	SW, WR	SB, WB	–
Process Sealed		A, B, G, G3T, M2T	A, G, M2T	AB, BB, GB, G3B, M2B	–
Illuminated		B, G, M2100, TL	CWSB, CWSC, GW, JWS, LW, M2100, MLW	Refer to Illuminated Pushbuttons	MS, SS
Unique Features		**B, TL:** IP65 **M:** IP67 (B3 & D3 Bushings) **S:** IP67 **WT:** IP60, IP67 (Wire lead models)	**JWLW, JWMW:** IP67 **WR:** IP60, IP67 (Wire lead models) **LW:** High capacity	**LB:** IP65 **MB2000:** IP65 (B3 & D3 Bushings) **YB, YB2:** IP65 **WB:** IP60, IP67 (Wire lead models) **FB:** Turret terminals	Logic level through 6A ratings **JS01, JS03:** Piano Actuated DIP Slides

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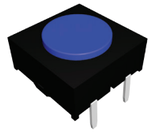
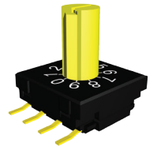
PRODUCTS BY SERIES



Tactiles



Rotaries

Keylocks

Illuminated Pushbuttons

Rating/Size	**Ultra-Miniature**	**CB, CB3:** 50mA @ 24V DC **HP02, HP03:** 3VA @ 28V DC; 0.4VA @ 28V AC/DC	**ND, ND3 (DIP):** 100mA @ 5/50V DC	–	**GB:** 0.4VA @ 28V AC/DC
	Subminiature	**JB:** 50mA @ 24V DC; 125mA @ 24V DC **JF, JL:** 50mA @ 24V DC	**FR01, FR02 (DIP):** 100mA @ 5/50V DC	**SK:** 0.4VA @ 28V AC/DC	**HB:** 0.1A @ 30V AC/DC **HB2, NP01:** 0.4VA @ 28V AC/DC
	Miniature	–	**MRA:** 250mA @ 125V AC **MRB:** 0.4VA @ 28V AC/DC **MRF, MRK:** 0.4VA @ 28V AC/DC **MRT22:** 10A @ 125V AC; **MRT23:** 5A @ 125V AC **MRX:** 2A @ 125V AC; **MRY:** 3A @ 125V AC; 0.4VA @ 28V AC/DC	**SK 12mm Bushing:** 3A @ 125V AC 1A @ 250V AC **SK PC Mount:** 0.4VA @ 28V AC/DC	**KB:** 1A @ 125/250V AC; 0.4VA @ 28V AC/DC **KP:** 100mA @ 12V AC **LP01:** 3A @ 125/250V AC **UB, UB2:** 5A @ 125/250V AC; 0.4VA @ 28V AC/DC **YB, YB2:** 3A @ 125/250V AC; 0.4VA @ 28V AC/DC
	Standard	–	**HS13:** 6A @ 125V AC **TS:** 6A @ 125/250V AC **HS16:** 12A @ 125V AC **PS:** 30A @ 125/250V AC	**CK 16mm & 19mm:** 3A @ 250V AC	**FP01:** 5V Photo Interrupter **LB:** 3A @ 125/250V AC; 0.4VA @ 28V AC/DC
Mounting	**PC Board**	CB, CB3, HP02, HP03, JB, JF, JL	FR01, FR02, MRA, MRB, MRF, MRK, ND, ND3	SK	HB2, KP, NP01, UB, UB2
	Bushing	–	FR01, HS13, HS16, MRA, MRB, MRK, MRT22, MRT23, MRX, MRY, PS, TS	CK, SK	HB, KB, LB, LP01, YB, YB2
	Snap-In	–	–	–	FP01, KB, LB, LP01, UB, UB2, YB
	Screw	–	–	–	–
	Surface Mount	CB3, HP03	FR02, ND3	–	–
Terminals	**Solder Lug**	–	HS13, HS16, MRT22, MRT23	CK, SK	HB, KB, LB, LP01, UB, UB2, YB, YB2
	PC	CB, HP02, JB, JF, JL	FR01, MRA, MRB, MRF, MRK, MRX, MRY, ND	SK	HB2, KP, NP01, UB, UB2, YB
	SMT Gull Wing	CB3, HP03	FR02, ND3	–	–
	Quick Connect	–	HS13, HS16	–	LB, LP01, YB, YB2
	Wirewrap	–	–	–	–
	Wire Lead	–	–	–	**FP01:** See plug options for connection
	Screw	–	PS, TS	–	–
Process Sealed		CB, CB3, JB, JF	MRA, MRB, MRF, MRK, ND, ND3	SK	–
Illuminated		JB, JF, JL	–	–	All devices are illuminated
Unique Features		Crimped, insert molded terminals Low profile designs **JB:** Right angle mount option	Logic level through 30A ratings **MRX, MRY:** Turret terminals	Indexing 45° or 90° 2, 3, or 5 positions Low, medium and high capacity	**LB:** IP65 **YB, YB2:** IP65

SmartSwitch

OLED AND LCD PROGRAMMABLE SWITCHES

- Smallest off-the-shelf OLED and LCD devices in the industry
- Achieve complex designs with fewer devices and less inventory
- Reconfigure switches and panel functions instantly
- Display industry specific graphics and moving images
- Simplify complex, multi-decision operations
- Wide selection of devices and development tools
- In-house design engineering support

FT Series

RESISTIVE TOUCH SCREENS

- Superior durability and flexibility
- 4 and 5 wire analog
- Digital
- Contact reliability with connector
- ANR film
- Non-glare and hard coated surface

FM Series

MEMBRANES

- Easy integration
- Nonilluminated options: 4 or 16 keys
- Illuminated options: 12 or 16 keys
- Illuminated models feature legends on embossed keypads
- Crisp actuation for positive feedback
- Adhesive backing for easy mounting

DS Series

TILT SWITCHES/SENSORS

- Environmentally friendly
- Replacement for mercury and pendulum switches
- High reliability photo interrupter
- Seal construction for protection from elements
- Switch triggered when tilted beyond +/-30°
- Right angle or straight PC terminals

everything starts here.

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