

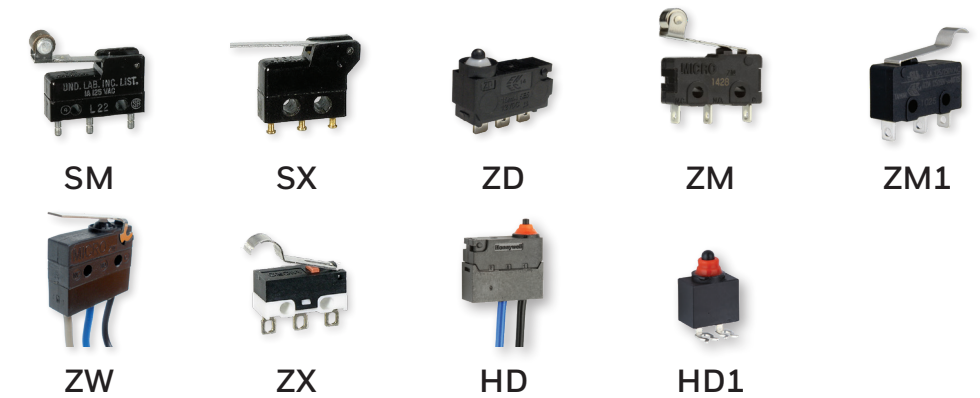
# MICRO SWITCH BASIC SWITCH SUBMINIATURE COMPARISON

The package size of the MICRO SWITCH subminiature switch is ideal for a wide variety of applications where space on the equipment is at a premium.

SERIES	SM	SX	ZD	ZM	ZM1	ZW	ZX	HD	HD1
<b>Type, Market</b>	premium	premium	standard, sealed	standard, unsealed	standard, unsealed	standard, sealed	standard, unsealed	standard, sealed	standard, sealed
<b>Sealing</b>	sealed on 411SM	-	IP67 (prewired)	-	-	IP67 (prewired)	-	IP67 (prewired)	IP67 (prewired)
<b>Amp rating (A)</b>	0.1 to 11	1 to 7	0.1, 3	0.1, 5, 10.1	0.1, 3, 6, 10.1, 16	0.1, 6	0.1, 3	0.1 to 3	0.1
<b>Voltage</b>	115 Vac, 125 Vac, 250 Vac, 30 Vdc	125 Vac, 250 Vac, 28 Vdc	125 Vac, 12 Vdc	125 Vac, 250 Vac, 30 Vdc	125 Vac, 250 Vac	125 Vac, 250 Vac	125 Vac, 48 Vdc	125 Vac, 12 Vdc	12 Vdc
<b>Circuitry</b>	SPDT	SPDT, SPNO	SPDT	SPST, SPDT, SPNO	SPDT, SPNO, SPNC	SPDT, SPNO, SPNC	SPDT	SPDT, SPNO, SPNC	SPNO, SPNC
<b>Operating force (gf)</b>	0.04 oz to 2 oz	0.71 oz to 6 oz	130 to 195	0.18 oz to 8.78 oz	12 to 355	1.94 oz to 7.16 oz	0.53 oz to 5.3 oz	130 max.	100 to 200
<b>Terminations</b>	quick connect, solder, pcb	quick connect, solder, pcb	solder, pcb, pre-wired	quick connect, solder, pcb	quick connect, solder, pcb	quick connect, solder, cable	solder, pcb	solder, pcb, pre-wired	solder, pcb, pre-wired, clips
<b>Actuators/ levers</b>	pin plunger, straight, roller, sim. roller, paddle	pin plunger, straight, roller, sim. roller, offset flag, crossed roller	pin plunger, straight, sim. roller	pin plunger, straight, roller, sim. roller, L-shaped	pin plunger, straight, roller, sim. roller, L-shaped	pin plunger, straight, roller, sim. roller	pin plunger, straight, sim. roller, special	pin plunger, lever, sim. roller, formed lever	pin plunger
<b>Approvals</b>	UL, CSA, ENEC, CE	UL, CSA, ENEC, CE	UL, cUL, CE, ENEC	UL, CSA, CE	UL, cUL, ENEC	UL, cUL, CE, ENEC	UL, CSA	UL, cUL, ENEC, CQC	UL, cUL, ENEC, CQC
<b>Operating Temp. (°C)</b>	-55 to 121/204	-55 to 121/204	-40 to 85	-40 to 120	-40 to 125	-25°C to 70°C/120°C	-40 to 65	-40 to 125	-40 to 85
<b>Contacts</b>	silver, gold	silver, gold	silver, gold-plated silver	silver, gold-plated silver, silver-tin-indium oxide	silver, gold-plated silver & brass, silver-tin-indium oxide	silver, gold-plated silver	silver, gold-plated silver	silver alloy	silver-plated copper alloy
<b>Housing material</b>	phenolic	phenolic	PBT polyester	polyamide (nylon)	polyamide (nylon)	PBT polyester	polyamide (nylon)	polyamide (nylon)	PBT Polyester
<b>Dimensions mm H x W x L</b>	12,7 x 6,35 x 20,3	12,7 x 6,35 x 20,3	10,6 x 6,35 x 19,8	10,6 x 6,4 x 19,8	10,6 x 6,4 x 19,8	9,0 x 6,4 x 19,8	6,5 x 5,7 x 12,7	7,4 x 5,4 x 14,7	7,05 x 5,3 x 8,3

## PRODUCT SERIES AND DATASHEETS

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## APPLICATIONS



### Presence Detection

Ensures door latching and safe operation



### Flow Switch

Enables safe and efficient water usage



### Power Switch

Reliable system control for motors, pumps, fans



### Operator Controls

Interface control for system auxiliary functions







### Pressure Switch

Detection and warning of high pressure or over pressure events

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