

# 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
Type, Market	premium	premium	standard, sealed	standard, unsealed	standard, unsealed	standard, sealed	standard, unsealed
Sealing	sealed on 411SM	–	IP67 (prewired)	–	–	IP67 (prewired)	–
Amp rating (A)	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
Voltage	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
Circuitry	SPDT	SPDT, SPNO	SPDT	SPST, SPDT, SPNO	SPDT, SPNO, SPNC	SPDT, SPNO, SPNC	SPDT
Operating force (gf)	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
Terminations	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
Actuators/ levers	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
Approvals	UL, CSA, ENEC, CE, UKCA	UL, CSA, ENEC, CE, UKCA	UL, cUL, CE, UKCA, ENEC	UL, CSA	UL, cUL, ENEC, CE, UKCA	UL, cUL, CE, UKCA, ENEC	UL, CSA
Operating Temp. (°C)	-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
Contacts	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
Housing material	phenolic	phenolic	PBT polyester	polyamide (nylon)	polyamide (nylon)	PBT polyester	polyamide (nylon)
Dimensions mm H x W x L	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

## PRODUCT SERIES AND DATASHEETS

Click the product or series to view the Series datasheet.



SM



SX



ZD



ZM



ZM1



ZW



ZX

## 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

## SUPPORTING DOCUMENTATION

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Applying Precision Switches



Where Legacy Meets Innovation



Industrial Applications Brochure



Sensors and Switches for Medical Applications

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