

# MICRO SWITCH BASIC SWITCH LARGE SWITCH COMPARISON

Ideal for high cost-of-failure applications. Low operating force and differential travel.  
Current ratings from 1 A to 25 A. Designed to withstand 100K operations at full load or 10M for mechanical life.

SERIES	BZ	BA	BM	BE	6AS	MT	DT	BS
<b>Type, Market</b>	premium	premium	premium	premium	specialty; tandem switch	designed for power-duty dc loads	Same size as BZ, but DPDT	adjustable differential travel
<b>Use</b>	Switch styles: momentary plunger, manual reset plunger, make-before-break contacts, sequential contacts, double break contacts, split contacts					control circuits to switch high capacity dc systems	simultaneous make/break of two independent circuits	pressure or temp. switch assemblies
<b>Amp rating (A)</b>	1 A, 5 A, 10 A, 15 A	1 A, 15 A, 20 A	22 A	25 A	1 A, 5 A, 10 A, 15 A, 20 A	10 A	10 A	15 A, 20 A
<b>Voltage</b>	125 Vac, 250 Vac, 480 Vac	125 Vac, 250 Vac, 480 Vac	125 Vac, 250 Vac, 480 Vac	125 Vac, 250 Vac, 480 Vac	125 Vac, 250 Vac, 480 Vac	125 Vac/Vdc	125 Vac/Vdc, 250 Vac/Vdc	250 Vac, 277 Vac, 480 Vac
<b>Circuitry</b>	SPDT, SPNO, SPNC	SPDT, SPNO, SPNC	SPDT, SPNO, SPNC	SPDT, SPNO, SPNC	per each switch	SPDT	DPDT	SPDT, SPNO, SPNC
<b>Operating Force</b>	<1.0 oz to 28 oz	1.0 oz to 35 oz	<1.0 oz to 25 oz	2.5 oz to 25 oz	2 oz to 23 oz	2 oz to 35 oz	2.5 oz to 20 oz	6 oz to 32 oz
<b>Terminations</b>	quick connect, solder, screw, wire harness with connector	quick connect, solder, screw	quick connect, solder, screw	quick connect, solder, screw	quick connect, solder, screw	solder, screw	screw	quick connect, solder, screw
<b>Actuators/ levers</b>	<ul style="list-style-type: none"> <li>plunger: pin, high overtravel</li> <li>panel mount</li> <li>rigid lever: straight, roller, formed adjustable</li> <li>flexible leaf: straight, roller, formed</li> </ul>	<ul style="list-style-type: none"> <li>plunger: pin, high overtravel</li> <li>panel mount</li> <li>rigid lever: straight, roller, formed</li> <li>flexible leaf: straight, roller, formed</li> </ul>	<ul style="list-style-type: none"> <li>plunger: pin, high overtravel</li> <li>panel mount</li> <li>rigid lever: straight, roller, formed adjustable</li> <li>flexible leaf: straight, roller, formed</li> </ul>	<ul style="list-style-type: none"> <li>plunger: pin, high overtravel</li> <li>panel mount</li> <li>rigid lever: straight, roller, formed</li> <li>flexible leaf: straight, roller, formed</li> </ul>	common actuator with adjustable synchronicity	<ul style="list-style-type: none"> <li>plunger: pin, high overtravel</li> <li>rigid lever: straight, roller, formed</li> <li>flexible leaf: straight, roller, formed</li> </ul>	<ul style="list-style-type: none"> <li>pin plunger</li> <li>straight plunger</li> <li>rigid lever: straight, roller</li> </ul>	pin plunger (SST)
<b>Approvals</b>	UL, CSA, ENEC, CE, FAA-PMA, MIL-PRF-8805 (varies by model)	UL, CSA, ENEC, CE (varies by model)	UL, CSA, ENEC, CE (varies by model)	UL, CSA	UL, CSA	UL, CSA	UL, CSA, FAA, PMA, MIL-PRF-8805	UL, CSA (most models)
<b>Operating Temp. (°C)</b>	-55 to 85, 121 and 204°C options	-55 to 85, 121 and 204°C options	-55 to 85, 121 and 204°C options	-55 to 85, 121 and 204°C options	-55 to 85	-55 to 82	-55 to 85	-55 to 85
<b>Contacts</b>	gold, silver, silver-copper-nickel	gold, silver, silver cadmium oxide	silver, silver cadmium oxide, silver-tin oxide	silver, silver cadmium oxide	gold, silver, silver cadmium oxide, silver-tin oxide, silver-copper-nickel	silver	silver	silver, silver cadmium oxide
<b>Housing material</b>	phenolic: general purpose, heat-resistant, high temperature, mica-filled					phenolic: arc resistant melamine	phenolic: heat-resistant	phenolic: heat-resistant, mica-filled
<b>Dimensions mm H x W x L</b>	25,4 x 17,5 x 49,3	25,4 x 17,5 x 49,3	25,4 x 17,5 x 49,3	25,4 x 17,5 x 49,3	25,4 x 35 x 49,3	25,4 x 17,5 x 49,3	25,4 x 17,5 x 49,3	34,3 x 17,5 x 49,3
<b>Mechanical Life @ 95 % survival</b>	up to 10,000,000 cycles	up to 10,000,000 cycles	up to 10,000,000 cycles	up to 10,000,000 cycles	up to 10,000,000 cycles	up to 500K operations	up to 20,000,000 cycles	Up to 10,000,000 operations

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Our Large Basics have offered the **tightest & most precise characteristic specifications** for almost a century.



MICRO SWITCH Large Basics are **rugged, strong,** and built to outlast the toughest applications








These switches thrive in high cost-of-failure applications with **MIL** and **FAA-PMA** approvals.

## PRODUCT SERIES AND DATASHEETS

Click the product or series to view the Series datasheet.








## APPLICATIONS

				
<b>Power Switch</b> Reliable system control for motors, pumps, fans	<b>Presence Detection</b> Ensures door latching and safe operation	<b>Pressure Switch</b> Detection and warning of high pressure or over pressure events	<b>Flow Switch</b> Enables safe and efficient water usage	<b>Float Switch</b> On/off power to stop overflow conditions

## SUPPORTING DOCUMENTATION

Click the document title or icon to view the material.

-  Applying Precision Switches
-  Sensors and Switches for Medical Applications
-  Industrial Applications Brochure
-  Sensors and Switches in Valves and Flow Meters
-  Case Study: BZ Switches