

MICRO SWITCH™ Premium Large Basic Switches

Table 1. Specifications

Characteristic	BZ Series	WZ Series	YZ Series	BA Series	WA Series	YA Series	BM Series	BE Series
								
Ampere rating	15 A			20 A			22 A	25 A
Circuitry	SPDT	SPNC	SPNO	SPDT	SPNC	SPNO	SPDT	SPDT
Operating force	1.0 oz to 28 oz							
Termination	quick connect, solder, screw							
Actuator	pin plunger, overtravel plunger, straight, roller, flexible leaf roller, flexible leaf							
Voltage	125 Vac, 250 Vac, 125 Vdc, 250 Vdc							
Agency approvals	UL, CSA, ENEC, CE (varies by specific model)							
Operating temperature	-55 °C to 85 °C [-67 °F to 185 °F]							
Contacts	silver, silver cadmium oxide, gold alloy							
Housing	general purpose phenolic							
Sealing	Environment sealing option available (options for IP64 Sealing)							
Dielectric strength	2000 V between each terminal and ground							
Contact resistance	15 m Ohm max.(initial)							
Insulation resistance	100,000 M Ohm min.							
Vibration	1,5 mm peak-to-peak amplitude, frequency 10 Hz to 55 Hz, for two continuous hours							
Expected mechanical life	up to 20,000,000 cycles at 95% survival							
Expected electrical service life	100K operations at rated load							
Rated frequency	50 Hz/60 Hz							

ELECTRICAL DATA AND UL CODES

Table 2. UL Electrical Ratings

Code	Circuitry	Electrical data and UL codes
A	SPDT	15 A, 125, 250 or 480 Vac; 1/8 HP, 125 Vac; 1/4 HP, 250 Vac; 1/2 A, 125 Vdc; 1/4 amp, 250 Vdc. UL Code L96
B	SPDT	5 A, 125, 250 or 480 Vac; 1/2 A, 125 Vdc; 1/4 amp, 250 Vdc. UL Code L35
C	SPDT	10 A, 125, 250 or 480 Vac; UL Code L8
D	SPDT	15 A, 125, 250 or 480 Vac; 1/8 HP, 125 Vac; 1/4 HP, 250 Vac. UL Code L103
E	SPDT	15 A, 125, 250 or 480 Vac; 1/4 HP, 125 Vac; 1/2 HP, 250 Vac; 1/2 A, 125 Vdc; 1/4 amp, 250 Vdc. UL Code L67
F	SPDT	22 A, 125, 250 or 480 Vac; 1/2 HP, 125 Vac; 1 HP, 250 Vac. UL Code L161
G	SPDT	20 A, 125, 250 or 480 Vac; 10 A, 125 Vac "L" (tungsten lamp load); 1 HP, 125 Vac; 2 HP, 250 Vac; 1/2 A, 125 Vdc; 1/4 A, 250 Vdc. UL Code L23
H	SPDT	Motor control - 25 A, 125, 250 or 480 Vac; 1 HP, 125 Vac; 2 HP, 250 Vac; Pilot duty—750 VA, 125, 250, or 277 Vac
I	SPDT	10 A, 125, 250 or 480 Vac; 1/8 HP, 125 Vac; 1/4 HP, 250 Vac; UL Code L95
P	SPDT	1 A, 125 Vac UL Code L22
T	Two-circuit, double break	Motor Control 15 A, 120, 240, 480 or 600 Vac; 1/2 HP, 120 Vac; 1 HP, 240 Vac; 0.8 amp, 115 Vdc; 0.4 amp, 230 Vdc.
W	SPST	20 A, 125, 250 or 277 Vac; 3/4 HP, 125 Vac; 1/2 HP, 250 Vac UL Code L178B
X	SPDT	15 A, 125, 250 or 480 Vac; 2 A, 600 Vac; 1/8 HP, 125 Vac; 1/4 HP, 250 Vac; 1/2 amp, 125 Vdc; 1/4 amp, 250 Vdc. UL Code L74

GENERAL SWITCH IDENTIFICATION

The first letter in the catalog listing designates:

- B** = Single pole, double throw
- W** = Single pole, normally closed
- Y** = Single pole, normally open

The second letter in the catalog listing designates:

- Z** = Standard, 15 A version
- M** = 22 A version
- A** = Standard, 20 A version
- E** = 25 A version

MOUNTING DIMENSIONS

Mounting dimensions are included in this datasheet. They are shown in English and metric equivalents. These dimensions are for reference only. Engineering drawings may be accessed via the Honeywell web site: sensing.honeywell.com.

Mounting holes for Types BZ, BM, BA, BE, and 6AS switches accept pins or screws of 3,53 mm [0.139 in] diameter.

RECOMMENDED TORQUE

Mounting screws 0,39 Nm [3 in-lb]*
Terminal screws 0,45 Nm [4 in-lb]
Panel mount bushing 0,45 Nm to 0,68 Nm [4 in-lb to 6 in-lb]

*Note: Tightening mounting screws above 0,3 Nm [3 in-lb] changes operating characteristics and increases the possibility of cracking the case.

UL/CSA

Honeywell basic switches are Component Recognized by Underwriters' Laboratories, Inc. and certified by Canadian Standards Association. The BA, BZ, and BM line is covered as Special Use Switches to UL Standard 1054; the BE line is covered as an Industrial Product to UL Standard 508. Agency File References are:

- BA UL File E12252, issued 12-09-88
- BM UL File E12252, issued 12-08-88
- BZ UL File E12252, issued 6-29-89
- BE-1,2,5 UL File E22779, Vol. 4, Sec. 1
- BE-R UL File E22779, Vol. 4, Sec. 2

MICRO SWITCH™ Premium Large Basic Switches

O.F. • Operating force
R.F. • Release force
P.T. • Pretravel
O.T. • Overtravel
D.T. • Differential travel
O.P. • Operating position

ORDER GUIDE BY ASCENDING ELECTRICAL CAPABILITY

	Catalog Listing	Recommended For	Electrical Data and UL Codes	O.F. N [oz]	R.F. min. N [oz]	P.T. max. mm [in]	O.T. min. mm [in]	D.T. mm [in]	O.P.*** mm [in]
 BZ/BA type	BZ-2R72-A2**	Applications requiring gold alloy contacts	1 A P	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	0,13 [0.005]	0,01 to 0,05 [0.0004 to 0.0020]	15,88 [0.625]
	BZ-2R725551-A2	Gold alloy contacts Dustproof and splash resistant seal	1 A P	2,22 to 4,17 [8 to 15]	1,11 [4]	–	0,13 [0.005]	0,01 to 0,06 [0.0004 to 0.0025]	15,88 [0.625]
	BZ-2R244-A2	Operating in temp. to 204 °C [400 °F] for 100 hours	5 A B	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	0,13 [0.005]	0,01 to 0,05 [0.0004 to 0.0020]	15,88 [0.625]
	BZ-R21-A2	Lower force	10 A C	1,11 [4]	0,7 [2.5]	0,30 [0.012]	0,13 [0.005]	0,005 to 0,013 [0.0002 to 0.0005]	15,88 [0.625]
	BZ-2R-A2	Most applications SPDT	15 A A	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	0,13 [0.005]	0,01 to 0,05 [0.0004 to 0.0020]	15,88 [0.625]
	WZ-2R-A2	SPST (normally closed)	15 A A	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	0,13 [0.005]	0,01 to 0,05 [0.0004 to 0.0020]	15,88 [0.625]
	YZ-2R-A2	SPST (normally open)	15 A A	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	0,13 [0.005]	0,01 to 0,05 [0.0004 to 0.0020]	15,88 [0.625]
 Sealed type	BZ-R-A2	Less differential travel	15 A D	1,95 to 2,5 [7 to 9]	1,11 [4]	0,30 [0.012]	0,13 [0.005]	0,005 to 0,008 [0.0002 to 0.0003]	15,88 [0.625]
	BZ-R19-A2	Best repeatability	15 A D	1,95 to 3,34 [7 to 12]	1,11 [4]	0,30 [0.012]	0,13 to 0,2 [0.005 to 0.008]	0,005 to 0,02 [0.0002 to 0.0008]	16,26 [0.640]
	BZ-2R24-A2	Operating in temp. to 121 °C [250 °F]	15 A A	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	0,13 [0.005]	0,01 to 0,05 [0.0004 to 0.0020]	15,88 [0.625]
	BZ-2RT04 (M8805/1-004)	MIL-PRF-8805 application requirements	15 A A	2,5 to 3,61 [9 to 13]	1,67 [6]	0,38 [0.015]	0,13 [0.005]	0,01 to 0,05 [0.0004 to 0.0020]	15,88 [0.625]
	BZ-2R05-A2	Stability under varying humidity	15 A A	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	0,13 [0.005]	0,01 to 0,05 [0.0004 to 0.0020]	15,88 [0.625]
	BZ-2R5551-A2	Dustproof and splash resistant seal	15 A A	2,5 to 4,17 [9 to 15]	1,11 [4]	–	0,13 [0.005]	0,01 to 0,06 [0.0004 to 0.0025]	15,88 [0.625]
	BZ-2R55-A2-S	Sealed construction. Stainless steel internal snapspring	15 A A	2,5 to 4,17 [9 to 15]	1,11 [4]	–	0,13 [0.005]	0,01 to 0,06 [0.0004 to 0.0025]	15,88 [0.625]
 BA/BE type	BA-2R-A2	Up to 20 ampere load	20 A G	3,89 to 6,12 [14 to 22]	2,78 [10]	1,27 [0.050]	0,25 [0.10]	0,05 to 0,19 [0.0020 to 0.0075]	16,26 [0.640]
	BA-2R24-A2	Operating in temp. to 121 °C [250 °F]	20 A G	3,89 to 6,12 [14 to 22]	2,78 [10]	1,27 [0.050]	0,25 [0.10]	0,05 to 0,19 [0.0020 to 0.0075]	16,26 [0.640]
	BM-1R-A2	Up to 22 ampere load	22 A F	1,95 to 2,78 [7 to 10]	1,11 [4]	0,38 [0.015]	0,13 [0.005]	0,013 to 0,025 [0.0005 to 0.0010]	15,88 [0.625]
	BE-2R-A4	Up to 25 ampere load, #8 screw terminals	25 A H	3,89 to 6,12 [14 to 22]	2,78 [10]	1,27 [0.050]	0,25 [0.10]	0,05 to 0,19 [0.0020 to 0.0075]	16,26 [0.640]
 Manual Reset	BZ-RX	Manual reset, solder terminals	15 A E	1,95 to 2,5 [7 to 9] 0,56 to 2,78* [2 to 10]	–	0,30 [0.012] –	0,13 [0.005] 0,38* [0.015]	–	15,88 [0.625]
	WA-1RX-A4	Manual reset SPST-NC, #8 screw terminals	20 A W	5,56 [20] 6,95 [25]*	–	–	0,25 [0.010] –	0,20 [0.008] –	16,26 [0.64] 27,9*[1.10]

* Reset characteristics

** -A2 is supplied with #6 terminal screws

*** Except where stated, ±0,38 mm [±0.015 in]

OVERTRAVEL PLUNGER ORDER GUIDE

	Catalog Listing	Recommended For	Electrical Data and UL Codes	O.F. N [oz]	R.F. min. N [oz]	P.T. max. mm [in]	O.T. min. mm [in]	D.T. mm [in]	O.P.* mm [in]
	BZ-2RD72-A2	Applications requiring gold alloy contacts	1 A P	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	1,52 [0.060]	0,01 to 0,05 [0.0004 to 0.0020]	21,21 [0.835]
	BZ-2RD-A2	Added overtravel. For manual operation and slow 20° (max) cam rise	15 A A	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	1,52 [0.060]	0,01 to 0,05 [0.0004 to 0.0020]	21,21 [0.835]
	BZ-2RD24-A2	Operating in temperature to 121 °C [250 °F]	15 A A	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	1,52 [0.060]	0,01 to 0,05 [0.0004 to 0.0020]	21,21 [0.835]
	BM-1RD-A2	Up to 22 ampere load	22 A F	1,95 to 2,78 [7 to 10]	1,11 [4]	0,38 [0.015]	1,52 [0.060]	0,013 to 0,025 [0.0005 to 0.0010]	21,21 [0.835]
	BZ-2RDS725551-A2	Applications requiring gold alloy contacts plus dustproof and splash resistant seal	1 A P	3,61 to 5,28 [13 to 19]	1,11 [4]	–	1,52 [0.060]	0,01 to 0,063 [0.0004 to 0.0025]	28,20 [1.110]
	BZ-2RDS5551-A2	Dustproof and splash resistant seal	15 A A	3,61 to 5,28 [13 to 19]	1,11 [4]	–	1,52 [0.060]	0,01 to 0,063 [0.0004 to 0.0025]	28,20 [1.110]
	BA-2RB-A2	Up to 20 ampere load	20 A G	3,89 to 6,12 [14 to 22]	2,78 [10]	1,27 [0.050]	2,39 [0.094]	0,05 to 0,019 [0.0020 to 0.0075]	26,20 [1.03]
	BE-2RB-A4	Up to 25 ampere load, #8 screw terminals	25 A H	3,89 to 6,12 [14 to 22]	2,78 [10]	1,27 [0.050]	2,39 [0.094]	0,05 to 0,019 [0.0020 to 0.0075]	26,20 [1.03]
	BZ-2RS72-A2	Applications requiring gold alloy contacts	1 A P	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	1,52 [0.060]	0,01 to 0,05 [0.0004 to 0.0020]	28,20 [1.110]
	BZ-2RS-A2	Added overtravel. For in-line operation and with JR aux. actuators	15 A A	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	1,52 [0.060]	0,01 to 0,063 [0.0004 to 0.0025]	28,20 [1.110]
	BZ-2RS24-A2	Operating in temperature to 121 °C [250 °F]	15 A A	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	1,52 [0.060]	0,01 to 0,05 [0.0004 to 0.0020]	28,20 [1.110]
	BZ-2RST04 (M8805/1-012)	MIL-PRF-8805 application requirements	15 A A	2,5 to 3,61 [9 to 13]	1,67 [6]	0,38 [0.015]	1,52 [0.060]	0,01 to 0,05 [0.0004 to 0.0020]	28,20 [1.110]
	BZ-RSX	Manual reset solder terminals	15 A E	1,95 to 2,64 [7 to 9]	–	0,30 [0.012]	0,65 [0.025]	–	2,79 [1.11]
	BM-1RS-A2	Up to 22 ampere load	22 A F	1,95 to 2,78 [7 to 10]	1,11 [4]	0,38 [0.015]	1,52 [0.060]	0,013 to 0,025 [0.0005 to 0.0010]	28,20 [1.110]
	BZ-2RS7225551-A2	Applications requiring gold alloy contacts plus dustproof and splash resistant seal	1 A P	2,5 to 4,17 [9 to 15]	1,11 [4]	–	1,52 [0.060]	0,01 to 0,063 [0.0004 to 0.0025]	28,20 [1.110]
	BZ-2RS5551-A2	Dustproof and splash resistant seal	15 A A	2,5 to 4,17 [9 to 15]	1,11 [4]	–	1,52 [0.060]	0,01 to 0,063 [0.0004 to 0.0025]	28,20 [1.110]

* ±51 mm [±0.020 in]

MICRO SWITCH™ Premium Large Basic Switches

O.F. • Operating force
R.F. • Release force
P.T. • Pretravel
O.T. • Overtravel
D.T. • Differential travel
O.P. • Operating position

OVERTRAVEL PLUNGER ORDER GUIDE

	Catalog Listing	Recommended For	Electrical Data and UL Codes	O.F. N [oz]	R.F. min. N [oz]	P.T. max. mm [in]	O.T. min. mm [in]	D.T. mm [in]	O.P.** mm [in]
	BZ-2RQ-A2	Added overtravel. For manual in-line operation and for slow 30° (max) rise cams	15 A A	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	5,56 [0.219]	0,01 to 0,05 [0.0004 to 0.0020]	38,10 ±0,51 [1.50 ±0.02]
	BZ-2RQ24-A2	Operating in temperature to 121 °C [250 °F]	15 A A	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	5,56 [0.219]	0,01 to 0,05 [0.0004 to 0.0020]	38,10 ±0,51 [1.50 ±0.02]
	BZ-2RQ172-A2	Applications requiring gold alloy contacts	1 A P	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	5,56 [0.219]	0,01 to 0,05 [0.0004 to 0.0020]	21,82 [0.859]
	BZ-2RQ1-A2	BZ-2RQ-A2 type applications with panel mount	15 A A	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	5,56 [0.219]	0,01 to 0,05 [0.0004 to 0.0020]	21,82 [0.859]
	BZ-2RQ1T04 (M8805/1-020)	MIL-PRF-8805 application requirements	15 A A	2,5 to 3,61 [9 to 13]	1,67 [6]	0,38 [0.015]	5,56 [0.219]	0,01 to 0,05 [0.0004 to 0.0020]	21,82 [0.859]
	BZ-2RQ124-A2	Operating in temperature to 121 °C [250 °F]	15 A A	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	5,56 [0.219]	0,01 to 0,05 [0.0004 to 0.0020]	21,82 [0.859]
	BZ-2RN702	Furnished with unassembled seal boot.	15 A X	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	3,18 [0.125]	0,01 to 0,05 [0.0004 to 0.0020]	48,4 ±0,50 1.906 ±0.02
	BZ-RQ1X	Manual reset. Solder terminals	15 A E	1,67 to 2,64 [6 to 9.5]	—	0,30 [0.012]	5,56 [0.219]	—	23,42 ±1,14 [0.922 ±0.045] 7,14* [0.281*]
	BA-2RQ1-A2	Up to 20 ampere load	20 A G	3,89 to 6,12 [14 to 22]	2,78 [10]	1,27 [0.050]	5,56 [0.219]	0,05 to 0,19 [0.0020 to 0.0075]	21,82 [0.859]
	BM-1RQ1-A2	Up to 22 ampere load	22 A F	1,95 to 2,78 [7 to 10]	1,11 [4]	0,38 [0.015]	5,56 [0.219]	0,013 to 0,025 [0.0005 to 0.0010]	21,82 [0.859]
	BZ-2RQ1872-A2	Applications requiring gold alloy contacts	1 A P	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	3,56 [0.140]	0,01 to 0,05 [0.0004 to 0.0020]	33,32 ±1,14 [1.31 ±0.045]
	BZ-2RQ18-A2	Added overtravel. Roller plunger for rapid cam (30° max) rise and slide operation. Panel mount	15 A A	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	3,56 [0.140]	0,01 to 0,05 [0.0004 to 0.0020]	33,32 ±1,14 [1.31 ±0.045]
	BZ-2RQ1824-A2	Operating in temperature to 121 °C [250 °F]	15 A A	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	3,56 [0.140]	0,01 to 0,05 [0.0004 to 0.0020]	33,32 ±1,14 [1.31 ±0.045]
	BZ-2AQ18T1	Double-break circuitry	15 A T	3,89 to 6,68 [14 to 24]	1,11 [4]	0,69 [0.025]	3,58 [0.141]	0,03 to 0,10 [0.001 to 0.004]	33,35 ±1,19 [1.31 ±0.047]
	BM-1RQ18-A2	Up to 22 ampere load	22 A F	1,95 to 2,78 [7 to 10]	1,11 [4]	0,38 [0.015]	3,56 [0.140]	0,013 to 0,025 [0.0005 to 0.0010]	33,32 ±1,14 [1.31 ±0.045]
	BZ-2RQ181-A2	Applications requiring roller plunger 90° to major axis of switch	15 A A	2,5 to 3,61 [9 to 13]	1,11 [4]	0,38 [0.015]	3,56 [0.140]	0,01 to 0,05 [0.0004 to 0.0020]	33,32 ±1,14 [1.31 ±0.045]

* Reset characteristics

** Except where stated, ±0,76 mm [±0.030 in]

STRAIGHT LEVER ORDER GUIDE

	Catalog Listing	Recommended For	Electrical Data and UL Codes	O.F. N [oz]	R.F. min. N [oz]	P.T. max. mm [in]	O.T. min. mm [in]	D.T. mm [in]	O.P.** mm [in]
	BZ-2RW8072-A2	Applications requiring gold alloy contacts	1 A P	0,7 [2.5]	0,14 [0.5]	–	5,56 [0.219]	0,18 to 1,27 [0.007 to 0.050]	19,1 [0.750]
	BZ-2RW80722555105-A2	Stability under varying humidity. Gold alloy contacts with seal	1 A P	0,7 [2.5]	0,14 [0.5]	–	5,56 [0.219]	0,18 to 1,27 [0.007 to 0.050]	19,1 [0.750]
	BZ-2RW8244-A2	Operating in temp. to 204 °C [400 °F] for 100 hours	5 A B	0,7 [2.5]	0,14 [0.5]	–	5,56 [0.219]	0,18 to 1,27 [0.007 to 0.050]	19,1 [0.750]
	BZ-RW8435-A2	Lowest operating force (without external return spring)	10 A I	0,07 [0.25]	–	6,76 [0.266]	5,56 [0.219]	0,08 to 0,38 [0.003 to 0.015]	19,1 [0.750]
	BZ-2RW876T	1.25-inch lever	15 A A	1,67 [6]	0,42 [1.5]	–	0,42 [0.141]	0,10 to 0,63 [0.004 to 0.025]	19,1 [0.750]
	BZ-2RW80-A2	2.5-inch lever	15 A A	0,7 [2.5]	0,14 [0.5]	–	5,56 [0.219]	0,18 to 1,27 [0.007 to 0.050]	19,1 [0.750]
	BZ-2RW84-A2	Lower force (without external return spring)	15 A A	0,28 [1]	0,03 [0.125]	8,33 [0.328]	5,56 [0.219]	0,18 to 1,27 [0.007 to 0.050]	19,1 [0.750]
	BZ-2RW805551-A2	Dustproof and splash resistant seal	15 A A	0,7 [2.5]	0,14 [0.5]	–	5,56 [0.219]	0,18 to 1,27 [0.007 to 0.050]	19,1 [0.750]
	BZ-2RWT04 (M8805/1-044)	MIL-PRF-8805 application requirements	15 A A	0,28 to 0,90 [1 to 3.25]	0,21 [0.75]	7,52 [0.296]	4,37 [0.172]	2,36 [0.093]	19,1 [0.750]
	BZ-2RW824-A2	Operating in temperature to 121 °C [250 °F]	15 A A	0,7 [2.5]	0,14 [0.5]	–	5,56 [0.219]	0,18 to 1,27 [0.007 to 0.050]	19,1 [0.750]
	BZ-RW80X	Manual reset, solder terminals	15 A E	0,63 [2.25]	–	–	5,56 [0.219] 0,38* [0.015]	–	19,05 [0.750] 7,14* [0.281]
	BZ-2RW863-A2	6-inch lever	15 A A	0,28 [1]	–	–	12,7 [0.50]	0,46 to 3,68 [0.018 to 0.145]	19,1 ±1,52 [0.75 ±0.06]
	BA-2RV-A2	Up to 20 ampere load	20 A G	0,7 [2.5]	0,14 [0.5]	15,88 [0.625]	1,98 [0.078]	2,77 max. [0.109] max.	19,1 [0.750]
	BM-1RW84-A2	Up to 22 ampere load	22 A F	0,28 [1]	0,03 [0.125]	7,54 [0.297]	5,56 [0.219]	0,13 to 0,84 [0.005 to 0.033]	19,1 [0.750]
	BE-2RV-A4	Up to 25 ampere load #8 screw terminals	25 A H	0,7 [2.5]	0,14 [0.5]	15,88 [0.625]	1,98 [0.078]	2,77 max. [0.109] max.	19,1 [0.750]
	BZ-2RW899-A2	Adjustable operating point 17 mm to 22 mm [0.67 in to 0.88 in]	15 A A	0,7 [2.5]	0,14 [0.5]	–	3,54*** [0.125]	0,18 to 1,27 [0.007 to 0.050]	17,02 to 22,35 [0.670 to 0.880]
	BZ-2RM-A2	Reverse acting actuator (switch plunger depressed in free position)	15 A A	1,67 [6]	0,28 [1]	5,56 [0.219]	5,56 [0.219]	0,10 to 0,89 [0.004 to 0.035]	19,1 [0.750]

* Reset characteristics

** except where stated ±0,76 mm [±0.030 in]

*** from 17 mm [0.670 in] O.P.

MICRO SWITCH™ Premium Large Basic Switches

O.F. • Operating force
R.F. • Release force
P.T. • Pretravel
O.T. • Overtravel
D.T. • Differential travel
O.P. • Operating position

SIMULATED ROLLER AND ROLLER LEVER ORDER GUIDE

	Catalog Listing	Recommended For	Electrical Data and UL Codes	O.F. N [oz]	R.F. min. N [oz]	P.T. max. mm [in]	O.T. min. mm [in]	D.T. mm [in]	O.P.** mm [in]
	BZ-2RW80147-A2	1.05 inch (26,7 mm) (simulated roller) lever applications	15 A A	1,67 [6]	0,42 [1.5]	–	2,39 [0.094]	0,08 to 0,51 [0.003 to 0.020]	30,17 [1.188]
	BZ-2RW80196-A2	1.90 inch (48,3 mm) (simulated roller) lever applications	15 A A	0,97 [3.5]	0,21 [0.75]	–	3,96 [0.156]	0,10 to 1,0 [0.004 to 0.040]	30,17 ±0,76 [1.188 ±0.03]
	BZ-2RW82272-A2	Applications requiring gold alloy contacts	1 A P	1,67 [6]	0,42 [1.5]	–	2,39 [0.094]	0,08 to 0,51 [0.003 to 0.020]	30,17 [1.188]
	BZ-2RW822725551-A2	Apps requiring gold alloy contacts plus dustproof and splash resistant seal	1 A P	1,67 [6]	0,42 [1.5]	–	2,39 [0.094]	0,08 to 0,51 [0.003 to 0.020]	30,17 [1.188]
	BZ-2RW822-A2	26,7 mm [1.05 in] mm) roller lever	15 A A	1,67 [6]	0,42 [1.5]	–	2,39 [0.094]	0,08 to 0,51 [0.003 to 0.020]	30,17 [1.188]
	BZ-2RW8222-A2	Roller turned 90°	15 A A	0,7 to 1,81 [2.5 to 6.5]	0,35 [1.25]	–	3,58 [0.141] max.	0,08 to 0,51 [0.003 to 0.020]	30,75 [1.25]
	BZ-2RW82224-A2	Operating in temperature to 121 °C [250 °F]	15 A A	1,67 [6]	0,42 [1.5]	–	2,39 [0.094]	0,08 to 0,51 [0.003 to 0.020]	30,17 [1.188]
	BZ-2RW822551-A2	Dustproof and splash resistant seal	15 A A	1,67 [6]	0,42 [1.5]	–	2,39 [0.094]	0,08 to 0,51 [0.003 to 0.020]	30,17 [1.188]
	BZ-2RW82255-A2-S	Best service for sealed construction. Stainless steel internal snap spring.	15 A A	1,67 [6]	0,42 [1.5]	–	2,39 [0.094]	0,08 to 0,51 [0.003 to 0.020]	30,17 [1.188]
	BA-2RV22-A2	Up to 20 ampere load	20 G	1,67 [6]	0,42 [1.5]	6,35 [0.250]	0,76 [0.030]	1,14 [0.045] max.	29,77 [1.172]
	BM-1RW822-A2	Up to 22 ampere load	22 F	1,67 [6]	0,42 [1.5]	–	2,39 [0.094]	0,025 to 0,33 [0.001 to 0.013]	30,17 [1.188]
	BE-2RV22-A4	Up to 25 ampere load, #8 screw terminals	25 H	1,67 [6]	0,42 [1.5]	6,35 [0.250]	0,76 [0.030]	1,14 [0.045] max.	29,77 [1.172]
	BZ-2RW82299-A2	Adjustable operating point. Roller lever 1.05 inch (26,7 mm)	15 A A	1,67 [6]	0,42 [1.5]	–	1,02 [0.040]	0,08 to 0,51 [0.003 to 0.020]	29,77 to 30,56 [1.172 to 1.203]
	BZ-2RW8299-A2	Adjustable operating point. Roller lever 1.90 inch (48,3 mm)	15 A A	0,97 [3.5]	0,21 [0.75]	–	2,16 [0.085]	0,10 to 1,0 [0.004 to 0.040]	29,2 to 31,5 [1.150 to 1.24]

** except where stated ±0,38 mm [±0.015 in]

ROLLER LEVER ORDER GUIDE

	Catalog Listing	Recommended For	Electrical Data and UL Codes	O.F. N [oz]	R.F. min. N [oz]	P.T. max. mm [in]	O.T. min. mm [in]	D.T. mm [in]	O.P.** mm [in]
	BZ-2RW82725551-A2	Applications requiring gold alloy contacts, plus dustproof, and splash resistant seal	1 A P	0,97 [3.5]	0,21 [0.75]	–	3,96 [0.156]	0,10 to 1,0 [0.004 to 0.040]	30,17 ±0,76 [1.188 ±0.030]
	BZ-2RW82-A2	1.90 inch (48,3 mm) (steel roller) lever applications	15 A A	0,97 [3.5]	0,21 [0.75]	–	3,96 [0.156]	0,10 to 1,0 [0.004 to 0.040]	30,17 ±0,76 [1.188 ±0.030]
	BZ-2RW825551-A2	Dustproof and splash resistant seal	15 A A	0,97 [3.5]	0,21 [0.75]	–	3,96 [0.156]	0,10 to 1,0 [0.004 to 0.040]	30,17 ±0,76 [1.188 ±0.030]
	BZ-2RW8224-A2	Operating in temperature to 121 °C [250 °F]	15 A A	0,97 [3.5]	0,21 [0.75]	–	3,96 [0.156]	0,10 to 1,0 [0.004 to 0.040]	30,17 ±0,76 [1.188 ±0.030]
	BA-2RV2-A2	Up to 20 ampere load	20 A G	0,97 [3.5]	0,14 [0.5]	11,89 [0.468]	1,52 [0.060]	2,16 [0.085]	30,17 ±0,76 [1.188 ±0.030]
	BM-1RW82-A2	Up to 22 ampere load	22 A F	0,97 [3.5]	0,21 [0.75]	–	3,96 [0.156]	0,08 to 0,56 [0.003 to 0.022]	30,17 ±0,76 [1.188 ±0.030]
	BE-2RV2-A4	Up to 25 ampere load, #8 screw terminals	25 A H	0,97 [3.5]	0,14 [0.5]	11,89 [0.468]	1,52 [0.060]	2,16 [0.085]	30,17 ±0,76 [1.188 ±0.030]
	BZ-RW922-A2	Best repeatability and O.P. stability	10 A I	3,34 [12]	1,11 [4]	0,35 [0.015]	2,54 [0.100]	0,013 to 0,025 [0.0005 to 0.0010]	31,37 [1.235]
	BZ-2RW826-A2	One-way roller 9,4 mm x 3,8 mm [0.37 in dia. x 0.15 in] wide roller	15 A A	1,67 [6]	0,42 [1.5]	–	2,39 [0.094]	0,08 to 0,51 [0.003 to 0.020]	41,34 [1.625]
	BZ-2RW825-A2	One-way roller 4,83 mm x 4,83 mm [0.19 in dia. x 0.19 in] wide roller	15 A A	2,22 [8]	0,42 [1.5]	–	1,52 [0.060]	0,38 [0.015]	28,96 [1.14]

NOTE: For adjustable operate point and simulated roller lever switches, refer to previous page.

** except where stated ±0,38 mm [±0.015 in]

MICRO SWITCH™ Premium Large Basic Switches

O.F. • Operating force
R.F. • Release force
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FLEXIBLE LEAF AND FLEXIBLE ROLLER LEAF ORDER GUIDE

	Catalog Listing	Recommended For	Electrical Data and UL Codes	O.F. N [oz]	R.F. min. N [oz]	P.T. max. mm [in]	O.T. min. mm [in]	D.T. mm [in] max.	O.P.** mm [in]
	BZ-2RL-A2	Force and stability of the flexible leaf actuator	15 A A	1,39 [5]	0,14 [0.5]	–	1,52 [0.060]	1,27 [0.050]	17,48 [0.688]
	BZ-2RL5551-A2	Dustproof and splash resistant seal	15 A A	1,95 [7]	0,14 [0.5]	–	1,52 [0.060]	1,27 [0.050]	17,48 [0.688]
	BZ-2RLT04 (M8805/1-001)	MIL-PRF-8805 application requirements	15 A A	1,39 [5]	0,14 [0.5]	–	1,52 [0.060]	1,27 [0.050]	17,48 [0.688]
	BZ-2RL24-A2	Operating in temperature to 121 °C [250 °F]	15 A A	1,39 [5]	0,14 [0.5]	–	1,52 [0.060]	1,27 [0.050]	17,48 [0.688]
	BZ-RLX	Manual reset. Solder terminals	15 A E	0,83 [3]	–	–	1,57 [0.062] 0,38* [0.015]	–	17,48 [0.688] 7,14* [0.281]
	BA-2RL-A2	Up to 20 ampere load	20 A G	2,5 [9]	0,28 [1]	–	1,57 [0.062]	1,57 [0.062]	17,48 [0.688]
	BE-2RL-A4	Up to 25 ampere load, #8 screw terminals	25 A H	2,5 [9]	0,28 [1]	–	1,57 [0.062]	1,57 [0.062]	17,48 [0.688]
	BZ-RL24-A2	Operating in temp. to 121 °C [250 °F] for 100 hours	5 A B	1,39 [5]	0,14 [0.5]	–	1,52 [0.060]	1,27 [0.050]	28,6 [1.125]
	BZ-2RL2-A2	Force and stability of the flexible leaf with roller	15 A A	1,39 [5]	0,14 [0.5]	–	1,52 [0.060]	1,27 [0.050]	28,6 [1.125]
	BZ-2RL25551-A2	Dustproof and splash resistant seal	15 A A	1,95 [7]	0,14 [0.5]	–	1,52 [0.060]	1,27 [0.050]	28,6 [1.125]
	BZ-2RL2T04 (M8805/1-036)	MIL-PRF-8805 application requirements	15 A A	1,04 to 1,39 [3.75 to 5]	0,14 [0.5]	–	1,52 [0.060]	1,27 [0.050]	28,6 [1.125]
	BA-2RL2-A2	Up to 20 ampere load	20 A G	2,5 [9]	0,28 [1]	–	1,52 [0.060]	1,65 [0.065]	28,6 [1.125]
	BE-2RL2-A4	Up to 25 ampere load, #8 screw terminals	25 A H	2,5 [9]	0,28 [1]	–	1,52 [0.060]	1,65 [0.065]	28,6 [1.125]

NOTE: For adjustable operate point and simulated roller lever switches, refer to previous page.

** except where stated $\pm 0,76$ mm [± 0.030 in]