

Z Series and V7 Series Basic Switches Nomenclature Charts

mm [in]

ZM	50	E	10	A	01	
Switch type (Notes 1, 4) ZM Series Subminiature	Current rating 10 0.1 A: 125 Vac (gold-plated) 50 5 A: 125/250 Vac 90 10.1 A: 125/250 Vac (Note 2)	Operating force (at pin plunger) B 60 g max. D 104 g max. E 146 g max. G 249 g max.	Terminal type 10 Solder straight 20 PCB straight 50 PCB right angle 60 PCB left angle 70 Quick connect 0.110 in 99 Special (Note 3)	Actuator type (Note 5) (integral levers) A Pin plunger B Short straight lever 16.7 [0.66] C Standard straight lever 18.7 [0.74] D Long straight lever 24.8 [0.98] K Longer straight lever 35.2 [1.39] J Longest straight lever 55.2 [2.17] F Roller lever 16.6 [0.65] H Small simulated roller lever 17.9 [0.71] E Standard simulated roller lever 18.0 [0.71] M Large simulated roller lever 21.1 [0.83] L L-shaped lever 31.5 [1.24] S Special lever (Note 3)	Circuitry 01 SPDT UL, CE, CSA 03 SPNO UL, CE, CSA	Special Designator A special designator letter is used only when terminal type is "99" or actuator type is "S" to specify that the termination or the actuator of the switch is special. Review product specification to determine the exact differences.

NOTES

- (1) Nomenclature is for identification purposes only, not all combinations are possible. Variations not set up would require minimum volumes to establish.
- (2) Switches with 10.1 A rating are only available with "G" operating force.
- (3) Terminal type "99" or actuator type "S" designates a special and therefore requires a special designator letter at the end of the listing.
- (4) Establishing new nomenclature may require notification to UL and European approvals agencies.
- (5) Lever length dimension is measured as follows: straight lever - from the center line of the pivot to the end of the plunger; roller lever or simulated roller lever - from the center line of the pivot point to the center line of the roller diameter.

ZW	50	F	15	A	D	1	
Switch type (Notes 1, 4) ZW Series Sealed Subminiature	Current rating 10 0.1 A: 125/250 Vac (gold-plated) 50 5 A: 125/250 Vac (silver) 90 10.1 A: 125/250 Vac (silver)	Operating force (at pin plunger) E 150 g max. (IP00) 175 g max. (IP67) F 203 g max. (IP00) 300 g max. (IP67)	Terminal type 15 Solder (angled) 20 PCB straight 70 Quick connect 0.110 in 90 Cable-bottom exit 500 mm (UL 1007 da 1.8 [0.07]) (Note 3) 91 Cable-side exit (opposite plunger) 500 mm (UL 1007 da 1.8 [0.07]) (Note 3) 92 Cable-side exit (plunger side) 500 mm (UL 1007 da 1.8 [0.07]) (Note 3) 99 Special (Note 2)	Actuator type (Note 5) (levers mounted externally) A Pin plunger B Short straight lever 17.4 [0.69] C Standard straight lever 19.4 [0.76] D Long straight lever 25.5 [1.00] F Roller lever 17.2 [0.68] H Small simulated roller lever 18.6 [0.73] J Longest straight lever 55.9 [2.2] S Special lever (Note 2)	Construction D Dust tight - IP00, no wires A Dust tight - IP00, encapsulated wires W Water tight - IP67, encapsulated wires	Circuitry 1 SPDT, UL, CE, cUL, ENEC	Special Designator A special designator letter is used only when terminal type is "99" or actuator type is "S" to specify that the termination or the actuator of the switch is special. Review product specification to determine the exact differences.

NOTES

- (1) Nomenclature is for identification purposes only, not all combinations are possible. Variations not set up would require minimum volumes to establish.
- (2) Terminal type "99" or actuator type "S" designates a special and therefore requires a special designator letter at the end of the listing.
- (3) Applies only to terminal type "90"/Cable termination type "90" must use "A" or "W" construction.
- (4) Establishing new nomenclature may require notification to UL and European approvals agencies.
- (5) Lever length dimension is measured as follows: straight lever - from the center line of the pivot to the end of the plunger; roller lever or simulated roller lever - from the center line of the pivot point to the center line of the roller diameter.

ZV	50	D	10	A	01	
Switch type (Notes 1, 4) ZV Series Subminiature	Current rating 10 0.1 A: 125 Vac 50 5 A: 125/250 Vac 90 10.1 A: 125/250 Vac (Note 2)	Operating force (at pin plunger) B 60 g max. D 104 g max. E 146 g max. G 249 g max. H 312 g max.	Terminal type 10 Solder straight 20 PCB straight 50 PCB right angle 70 Quick connect 0.110 in 99 Special (Note 3)	Actuator type (Note 5) (levers mounted externally) A Pin plunger B Short straight lever 17.4 [0.69] C Standard straight lever 19.4 [0.76] D Long straight lever 25.5 [1.00] E Simulated roller lever 18.65 [0.73] F Roller lever 17.2 [0.68] H Small simulated roller lever 18.6 [0.73] P Plastic lever 25.7 [1.012] S Special lever (Note 3)	Circuitry 01 SPDT UL, CE, cUL, ENEC	Special Designator A special designator letter is used only when terminal type is "99" or actuator type is "S" to specify that the termination or the actuator of the switch is special. Review product specification to determine the exact differences.

NOTES

- (1) Nomenclature is for identification purposes only, not all combinations are possible. Variations not set up would require minimum volumes to establish.
- (2) Switches with 10.1 A rating should only use "H" operating force to comply with VDE life cycle testing.
- (3) Terminal type "99" or actuator type "S" designate a special termination and therefore requires a special designator letter at the end of the listing.
- (4) Establishing new nomenclature may require notification to UL and European approvals agencies.
- (5) Lever length dimension is measured as follows: straight lever - from the center line of the pivot to the end of the plunger; roller lever or simulated roller lever - from the center line of the pivot point to the center line of the roller diameter.

ZX	10	E	10	A	01	
Switch type (Notes 1, 4) ZX Series Subminiature	Current rating 10 0.1 A: 48 Vdc (gold-plated) 40 3 A: 125 Vac (silver)	Operating force C 90 g max. E 150 g max.	Terminal type 10 Solder straight 30 PCB snap-in 50 PCB right angle 60 PCB left angle 99 Special (Note 2)	Actuator type (Note 3) (Integral levers) A Pin plunger B Short straight lever 10.0 [0.39] C Standard straight lever 13.0 [0.51] E Simulated roller lever 11.8 [0.47] H Small simulated roller lever 15.0 [0.58] J Longest straight lever 30.0 [1.18] S Special lever (Note 2)	Circuitry 01 SPDT UL, CE CSA	Special Designator A special designator letter is used only when terminal type is "99" or actuator type is "S" to specify that the termination or the actuator of the switch is special. Review product specification to determine the exact differences.



NOTES

- (1) Nomenclature is for identification purposes only, not all combinations are possible. Variations not set up would require minimum volumes to establish.
(2) Terminal type "99" or actuator type "S" designates a special and therefore requires a special designator letter at the end of the listing.
(3) Lever length dimension is measured as follows: straight lever - from the center line of the pivot to the end of the plunger; roller lever or simulated roller lever - from the center line of the pivot point to the center line of the roller diameter.
(4) Establishing new nomenclature may require notification to UL and European approvals agencies.

V7	1	C	1	7	D8	-201	-3
Switch type (Note 1) V7 Series Miniature	Operating force 1 150 g max. 1 175 g max. V & J electrical rating 1 225 g max. K & Z electrical rating 2 75 g max. 3 50 g max. 4 25 g max. 5 15 g max. 6 6 oz to 14 oz max. 7 8 oz max. 8 85 g max. 9 300 g max.	Electrical rating (Note 3) North America Europe (ENEC) A 5 A @ 125 Vac 3 A B 11 A @ 125 Vac 10 A C 15 A @ 125 Vac — D 1 A @ 125 Vac 1 A E 10 A @ 125 Vac 5 A F 3 A @ 125 Vac — H No rating — J 19 A @ 125 Vac 16 A K 22 A @ 125 Vac 20 A S 0.1 A @ 125 Vac 1 A V 21 A @ 125 Vac 16 A W 15.1 A @ 125 Vac — X 6 A @ 125 Vac — Z 25 A @ 125 Vac 20 A	Circuitry code 1 SPDT 2 SPNO 3 SPNC	Mounting/Constr. (Note 4) 3 150 °C 2.9 [0.11] mtg. holes 4 150 °C 3.1 [0.12] mtg. holes 7 150 °C 2.9 [0.11] mtg. holes 8 150 °C 3.1 [0.12] mtg. holes 9 150 °C 2.9 [0.11] mtg. holes 0 150 °C 3.1 [0.12] mtg. holes A 200 °C @ 5 A with 2.9 [0.11] mtg. holes	Termination style (in) D8 0.187 x 0.02 quick connect E8 0.187 x 0.02 quick connect spread D9 0.250 x 0.032 quick connect E9 0.250 x 0.032 quick connect spread P01 Right angle PCB P02 Left angle PCB P06 On end PCB P07 SPNO on edge PCB	Lever style (Note 2) 002 22.1 [0.87] straight 022 35.6 [1.4] straight 201 20.6 [0.81] roller 207 34.0 [1.34] roller 263 32.8 [1.29] simulated roller 266 34.0 [1.34] tall simulated roller 048 59.4 [2.34] straight 636 Paddle 139.5 [5.49]	Special designator Use only if switch has a special feature. Could be any number.

Formed quick-connect terminals available

Formed levers available

NOTES

- (1) Not all possible combinations are available; these are only guidelines.
(2) Lever length measured from center of back mounting hole to end of straight lever or center of roller.
(3) All ratings are UL/CSA except where noted for European-rated ENEC versions.
(4) Consider the temperature required and the mounting hole size when making this selection.

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WARNING

PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

WARNING

MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

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Sensing and Control

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