

K Series

Miniature Snap-Action Switches



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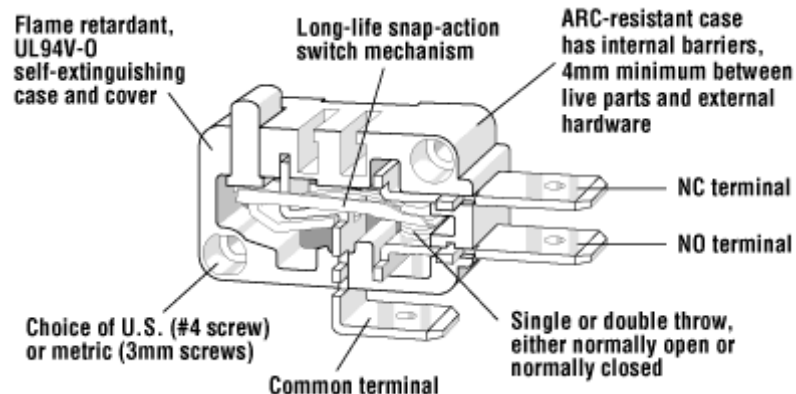
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Features

- Choice of current ratings up to 25 amps
- Choice of actuators
- Choice of terminals
- 3 contact arrangements
- Choice of operating force
- Long mechanical life
- Wiping contact action
- Snap over actuators
- Agency approved extended life versions



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K Series



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Electrical Ratings



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Switch Series	EN61058 Rating	UL1054 Rating	Electrical Life at Rated Load	
			According to VDE (Min. Operations)	According to UL (Min. Operations)
KWA/KWB	50mA, 28VDC	50mA, 28VDC	50,000	100,000
KWC/KWD	1(0.5)A, 250VAC	1.0A, 125/250VAC	50,000	100,000
KWE/KWF	3(1)A, 250VAC	3A, 1/10HP, 125/250VAC	50,000	100,000
KWG/KWH	6(2)A, 250VAC	5A, 1/4HP, 125/250VAC	50,000	100,000
KWJ/KWK	10(3)A, 250VAC	10A, 1/2HP, 125/250VAC	50,000	100,000
KWL	N/A	15.1A, 1/2HP, 125/250 VAC 5A, 125VAC Lamp Load (85°C only) 0.5A, 125VAC (85°C only) 0.25A, 250VAC (85°C only)	N/A	100,000
KWM	16(4)A, 250VAC	15.1A, 1/2HP, 125/250VAC 0.5A, 125VDC (85°C and 150°C only) 0.25A, 250VDC (85°C and 150°C only) 15.1A, 1/2HP, 125/250VAC (200°C only)	50,000	100,000
KWS	N/A	25A, 125/250VAC (85°C only) 1HP, 125VAC (85°C only) 2HP, 250VAC (85°C only)	N/A	100,000

Specifications

Electrical

Temperature Rating: -40° to +85°C, 150°C or 200°C

Flammability Rating: UL94V-O

Materials

Case/Cover: Thermoplastic Polyester (85°C or 150°C)
Liquid Crystal Polymer (200°C)

Button: Thermoplastic Acetal (85°C)
Thermoplastic Polyester (150°C)
Liquid Crystal Polymer (200°C)

Auxiliary Actuator: Cold-Rolled Steel (Nickel-Plated)

Terminals: Brass
Copper (25 amp only)

Moving Blade: Beryllium Copper

Contacts: Silver Alloy (except KWA and KWB — Gold-Plated)

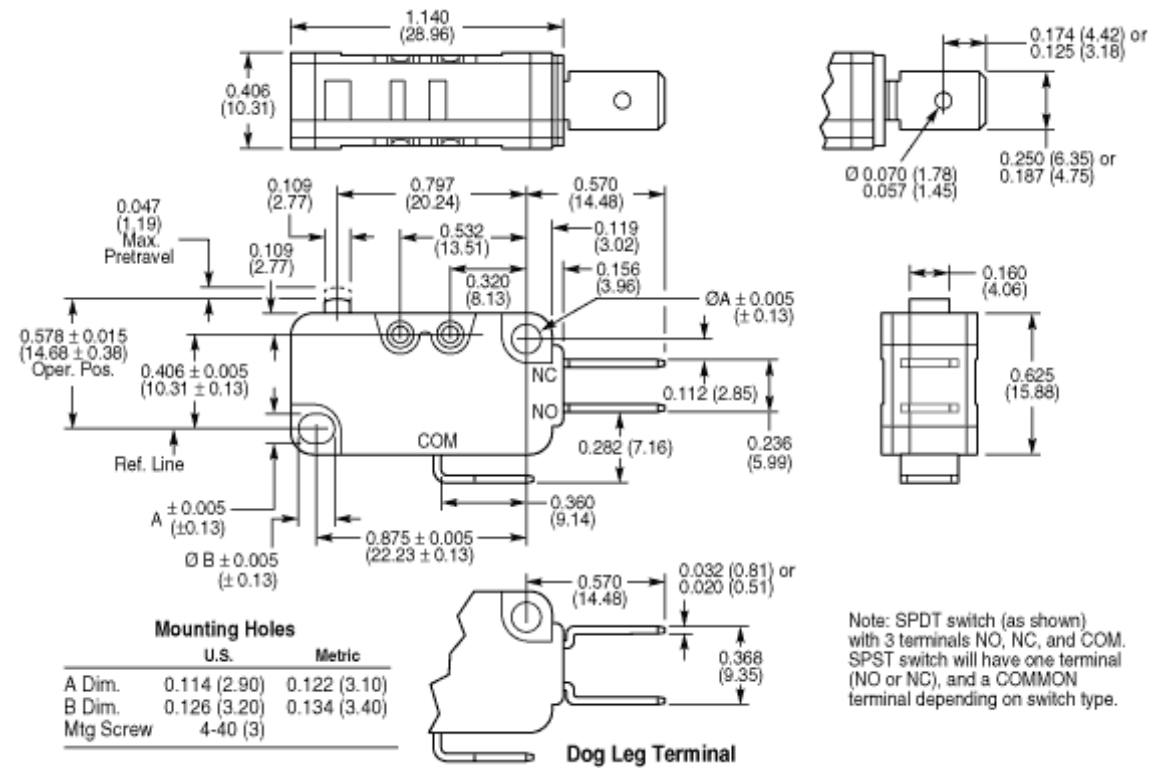
Approvals

International Approved Versions

K Series switches, except 25A (KWS), are internationally approved. Switches with straight terminals may require insulated connectors for international approval.



Dimensions



Inches (mm)

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Mounting

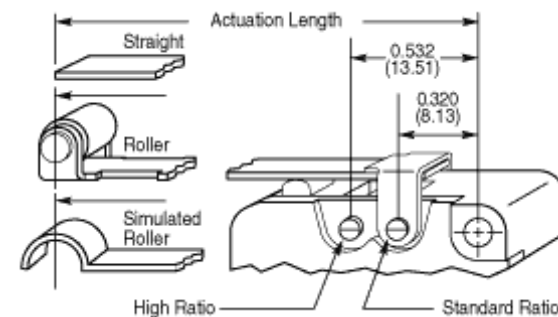
Recommended mounting screw size: #4-40 Round Head.
Recommended torque on screw: 3 inch lbs. max.

Actuators

Standard type snap over hinged lever and roller actuators are available in choice of two pivot positions. Actuation lengths are dimensioned from centerline of switch upper mounting hole as shown here.

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Auxiliary Actuators



Actuator Specifications

Actuator Type	Switch Type	Maximum Operating Force (grams)					Max. Pre-Travel inches (mm)	Operating Point* inches (mm)	Min. Over-Travel inches (mm)	Max. Movement Differential inches (mm)	Actuation Length** inches (mm)
		KWA, KWC, KWE	KWG	KWB, KWD, KWF, KWJ	KWH, KWK, KWM	KWS					
A		25	50	75	150	225	0.047 (1.19)	0.563/0.593 (14.31/15.06)	0.050 (1.27)	0.010 (0.25)	n/a
B		25	50	75	150	225	0.064 (1.63)	0.621/0.585 (15.78/14.85)	0.051 (1.29)	0.012 (0.31)	0.865 (21.97)
C		14	27	40	80	120	0.128 (3.26)	0.637/0.569 (16.18/14.45)	0.085 (2.16)	0.030 (0.76)	1.400 (35.56)
D		6	12	18	36	54	0.284 (7.22)	0.679/0.527 (17.25/13.38)	0.182 (4.62)	0.051 (1.30)	2.722 (69.14)
E		15	30	44	88	132	0.116 (2.95)	0.634/0.572 (16.11/14.52)	0.074 (1.88)	0.021 (0.54)	1.077 (27.36)
F		8	15	23	45	67	0.230 (5.85)	0.665/0.541 (16.90/13.74)	0.146 (3.71)	0.041 (1.05)	1.612 (40.94)
G		4	7	10	20	30	0.512 (13.01)	0.739/0.467 (18.78/11.86)	0.407 (10.33)	0.091 (2.32)	2.934 (74.52)
J		16	31	46	92	138	0.110 (2.80)	0.758/0.698 (19.26/17.72)	0.088 (2.23)	0.020 (0.51)	1.254 (31.85)
M		9	18	26	52	77	0.200 (5.08)	0.781/0.675 (19.84/17.14)	0.115 (2.92)	0.036 (0.92)	1.466 (37.24)
Q		15	29	43	85	127	0.120 (3.05)	0.852/0.786 (21.65/19.96)	0.096 (2.43)	0.022 (0.56)	1.340 (34.04)

T		8	16	24	47	71	0.218 (5.54)	0.877/0.761 (22.28/19.32)	0.173 (4.39)	0.039 (1.00)	1.552 (39.42)
*Measured above reference line. Refer to dimensional drawing above. **Actuator tolerance ± 0.031 inches (0.79mm)											

Ordering Information

K		W		A		D		Q		A C A	
Series/Prefix						Code	Temperature Rating	Code	Terminal Type (inches (mm))	Snap Over Actuators	
Code	Force	Code	Force	Rating	Notes					Code	Type
A	25	B	75	50mA	1	A	85°C UL/CUL	P+	0.062 x 0.032 (1.57 x 0.81) PCB*	B	Straight SR
C	25	D	75	1A	1	B	150°C UL/CUL	Q	0.187 x 0.020 (4.75 x 0.51) Straight	C	Straight SR
E	25	F	75	3A	1	C	200°C UL/CUL	R	0.187 x 0.020 (4.75 x 0.51) Dog Leg	D	Straight SR
G	50	H	150	5A	1	D	85°C UL/CUL/YDE	S	0.187 x 0.032 (4.75 x 0.81) Straight	E	Straight HR
J	75	K	150	10A	1	E	150°C UL/CUL/YDE	T	0.187 x 0.032 (4.75 x 0.81) Dog Leg	F	Straight HR
		L	150	15A	3			Y	0.250 x 0.032 (6.35 x 0.81) Straight	G	Straight HR
		M	150	15A	2			W	0.250 x 0.032 (6.35 x 0.81) Dog Leg	J	SM Roller SR
		S	225	25A	3, 5					M	SM Roller HR
										YI	Roller SR
										Q	Roller SR
										WI	Roller HR
										T	Roller HR

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Specifications subject to change without notice.