

KSC Miniature Tact Switch for SMT

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Selection guide

	KSC1	KSC2	KSC3	KSC4
Actuator	without	short, soft	short, hard	long, soft
Actuator material	-	silicone	thermoplastic	silicone
Housing material	thermoplastic	thermoplastic	thermoplastic	thermoplastic
Operating force (Newton)	See table below.			
Travel min./max. mm [inch]				
Life expectancy (k operations)				
Total height above P.C.B	2.5 mm [.0984 inch]	3.5 mm [.138 inch]	3.5 mm [.138 inch]	5.2 mm [.205 inch]
EIA 448-2 Tightness/washability	YES	YES	YES	YES
Gold: high temperature version	YES	YES	YES	YES
Terminal plating	tin plated	tin plated	tin plated	tin plated
Terminal type: G (gullwing), J (J type)	G or J	G or J	G or J	G or J
Soldering process infrared/double wave/vapor phase max. 265°C/5 seconds	YES	YES	YES	YES

Operating force / operating life / travel table

Type ¹⁾	Operating force FA ²⁾ N [grams]	Operating life k operations	Travel mm [inch]
KSC121	1.6 [160]	200	0.25 [.00984] ^{+0.4} ₋₀
KSC141	3.0 [300]	200	0.30 [.0118] ^{+0.4} ₋₀
KSC151	5.5 [550]	100	0.30 [.0118] ^{+0.4} ₋₀
KSC221	2.0 [200]	500	0.35 [.0138] ^{+0.3} _{-0.1}
KSC241	3.5 [350]	300	0.40 [.0157] ^{+0.4} _{-0.1}
KSC321	1.6 [160]	500	0.20 [.00787] ^{+0.3} ₋₀
KSC341	3.0 [300]	300	0.20 [.00787] ^{+0.3} ₋₀
KSC351	5.5 [550]	100	0.25 [.00984] ^{+0.3} ₋₀
KSC401 (50 shore)	1.1 [110]	5000	0.50 [.0197] ^{+0.25} _{-0.25}
KSC411	1.4 [140]	1000	0.35 [.0138] ^{+0.15} _{-0.15}
KSC421	1.7 [170]	1000	0.50 [.0197] ^{+0.25} _{-0.25}
KSC441	3.2 [320]	300	0.75 [.0295] ^{+0.25} _{-0.25}

¹⁾ Last digit: 1 = silver contacts, 3 = gold contacts

²⁾ Tolerance of operating force FA is ± 25%; operating force values of gold contact types higher: + 0.3N [30 grams]

Note: Operating life is given for tested forces corresponding to the actuator force value × 2.

PCB layout

