

Main Values for KS Versions

Overview of the main electrical values of KS versions

Contact material	Type	Silver contacts			Gold contacts			Silver contacts			
		1.3N	3N	5N	KSA	1.3N	3N	5N	KSB	1.6N	3N
	KSA	X	X	X	KSA	X	X	X	KSD	X	X
	KSF	X (1.6)	X	X	KSF	X	X	X		X	X
	KSL	X	X	X	KSL	X	X	X			
	KSAV	X	X	X	KSAV	X	X	X			
	KSLV	X	X	X	KSLV	X	X	X			
Data	KSI	X	X		KSI	X	X				
	KSJ	X (1.0)	X		KSJ	X (1.0)	X				
Ground terminal		Upon request			Upon request			No			
Max. voltage		50 V			50 V			50 V			
Min. voltage		20 mV			20 mV			5 V			
Max. switching current		50 mA			10 mA			50 mA			
Min. switching current		1 mA			1 mA			10 mA			
Max. switching power		1 VA			0.2 VA			1 VA			
Contact resistance		50 mΩ			50 mΩ			100 mΩ			
Dielectric strength		300 Vrms			300 Vrms			300 Vrms			
Insulation resistance (100 V)		10 ¹¹ Ω			10 ¹¹ Ω			10 ¹¹ Ω			
Bounce		≤ 1 ms			≤ 1 ms			≤ 1 ms			
Operating life with actuation force less than 2 times nominal force		5 × 10 ⁵	10 ⁵	10 ⁵	10 ⁶	10 ⁵	10 ⁵	5 × 10 ⁵	upon request	10 ⁵	10 ⁵
		10 ⁶ upon request	5 × 10 ⁵ upon request								

Ordering code		Example:	1	2	3	4	5	6	7
1	Designation: KS		KS	A	1	A	3	3	1
2	Actuator: A = short, L = long, B = without, F = flat, I = soft, J = long travel (spherical)								
3	Ground terminal: 0 = without (B only 0), 1 = with								
4	Insertion: M = manual, A = automatic, V = vertical (for KSA, KSI and KSL, not for KSB and KSF)								
5	Operation force (N [grams]), operating life (k operations): 1 = 1.6N [160 grams] and 100 k operations 2 = 1.3N [130 grams] and 500 k operations (KSA/KSL) 3 = 1.3N [130 grams] and more than 1000 k operations 4 = 3.0N [300 grams] and more than 100 k operations 5 = 5.0N [500 grams] and more than 100 k operations 9 = 3.0N [300 grams] and 500 k operations								
6	Operating temperature: 1 = low temperature - 40°C to + 90°C (silver contacts) 3 = high temperature - 40°C to + 125°C (gold contacts)								
7	Sealing: 0 = sealed against flux, 1 = totally sealed acc. to EIA RS448-2								