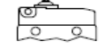








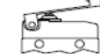







Actuator Specifications - Standard Ratio

Actuator Code	Switch Type	Maximum Operating Force grams	Maximum Pre-Travel mm (in)	Operating Point mm (in)	Minimum Over-Travel mm (in)	Max. Movement Differential mm (in)	Max. Rest Position mm (in)	Actuation Length mm (in)	Actuator Only Part Number
AA	DB5	70	1.0 (0.039)	8.4 ± 0.3 (0.331 ± 0.012)	0.6 (0.024)	0.10 (0.004)	9.3 (0.366)		
	DB1/3	150	1.0 (0.039)	8.4 ± 0.3 (0.331 ± 0.012)	0.6 (0.024)	0.10 (0.004)	9.3 (0.366)		
	DB6	150	1.0 (0.039)	8.4 ± 0.3 (0.331 ± 0.012)	0.6 (0.024)	0.15 (0.006)	9.3 (0.366)	--	--
	DB2	250	1.0 (0.039)	8.4 ± 0.3 (0.331 ± 0.012)	0.6 (0.024)	0.10 (0.004)	9.3 (0.366)		
	DB7	280	1.0 (0.039)	8.4 ± 0.3 (0.331 ± 0.012)	0.6 (0.024)	0.15 (0.006)	9.3 (0.366)		
BA	DB5	70	1.0 (0.039)	8.4 ± 0.3 (0.331 ± 0.012)	0.6 (0.024)	0.10 (0.004)	9.3 (0.366)		
	DB1/3	150	1.0 (0.039)	8.4 ± 0.3 (0.331 ± 0.012)	0.6 (0.024)	0.10 (0.004)	9.3 (0.366)		
	DB6	150	1.0 (0.039)	8.4 ± 0.3 (0.331 ± 0.012)	0.6 (0.024)	0.15 (0.006)	9.3 (0.366)	--	--
	DB2	250	1.0 (0.039)	8.4 ± 0.3 (0.331 ± 0.012)	0.6 (0.024)	0.10 (0.004)	9.3 (0.366)		
	DB7	280	1.0 (0.039)	8.4 ± 0.3 (0.331 ± 0.012)	0.6 (0.024)	0.15 (0.006)	9.3 (0.366)		
LB	DB5	30	4.0 (0.157)	10.7 ± 1.3 (0.421 ± 0.051)	2.0 (0.079)	0.5 (0.020)	14.0 (0.551)		
	DB1/3	60	4.0 (0.157)	10.7 ± 1.3 (0.421 ± 0.051)	2.0 (0.079)	0.5 (0.020)	14.0 (0.551)		
	DB6	60	4.0 (0.157)	10.7 ± 1.3 (0.421 ± 0.051)	2.0 (0.079)	0.75 (0.030)	14.0 (0.551)	4.8 (0.189)	614-1232
	DB2	100	4.5 (0.177)	10.7 ± 1.6 (0.421 ± 0.063)	1.5 (0.059)	0.70 (0.028)	14.0 (0.551)		
	DB7	115	4.5 (0.177)	10.7 ± 1.6 (0.421 ± 0.063)	1.5 (0.059)	0.75 (0.030)	14.0 (0.551)		
LC	DB5	25	4.5 (0.177)	11.1 ± 1.5 (0.437 ± 0.059)	2.0 (0.079)	0.6 (0.024)	15.0 (0.591)		
	DB1/3	50	4.5 (0.177)	11.1 ± 1.5 (0.437 ± 0.059)	2.0 (0.079)	0.6 (0.024)	15.0 (0.591)		
	DB6	50	4.5 (0.177)	11.1 ± 1.5 (0.437 ± 0.059)	2.0 (0.079)	1.2 (0.048)	15.0 (0.591)	7.0 (0.276)	614-1233
	DB2	85	5.0 (0.197)	11.1 ± 1.8 (0.437 ± 0.071)	1.5 (0.059)	1.0 (0.039)	15.0 (0.591)		
	DB7	100	5.0 (0.197)	11.1 ± 1.8 (0.437 ± 0.071)	1.5 (0.059)	1.2 (0.048)	15.0 (0.591)		
LD	DB5	9	15.0 (0.591)	13.0 ± 3.5 (0.512 ± 0.138)	4.0 (0.157)	4.5 (0.177)	27.0 (1.063)		
	DB1/3	18	15.0 (0.591)	13.0 ± 3.5 (0.512 ± 0.138)	4.0 (0.157)	4.5 (0.177)	27.0 (1.063)		
	DB6	18	15.0 (0.591)	13.0 ± 3.5 (0.512 ± 0.138)	4.0 (0.157)	6.8 (0.268)	27.0 (1.063)	42.0 (1.654)	614-1234
	DB2/7			<i>on request</i>					
SB	DB5	30	4.0 (0.157)	16.0 ± 1.3 (0.630 ± 0.051)	2.0 (0.079)	0.5 (0.020)	19.0 (0.748)		
	DB1/3	65	4.0 (0.157)	16.0 ± 1.3 (0.630 ± 0.051)	2.0 (0.079)	0.5 (0.020)	19.0 (0.748)		
	DB6	65	4.0 (0.157)	16.0 ± 1.3 (0.630 ± 0.051)	2.0 (0.079)	1.1 (0.043)	19.0 (0.748)	2.5 (0.098)	614-1237
	DB2	110	4.5 (0.177)	16.0 ± 1.6 (0.630 ± 0.063)	1.5 (0.059)	0.7 (0.028)	19.0 (0.748)		
	DB7	125	4.5 (0.177)	16.0 ± 1.6 (0.630 ± 0.063)	1.5 (0.059)	1.1 (0.043)	19.0 (0.748)		
SC	DB5	25	4.5 (0.177)	16.4 ± 1.5 (0.646 ± 0.059)	2.0 (0.079)	0.6 (0.024)	20.0 (0.787)		
	DB1/3	55	4.5 (0.177)	16.4 ± 1.5 (0.646 ± 0.059)	2.0 (0.079)	0.6 (0.024)	20.0 (0.787)		
	DB6	55	4.5 (0.177)	16.4 ± 1.5 (0.646 ± 0.059)	2.0 (0.079)	1.2 (0.048)	20.0 (0.787)	4.7 (0.185)	614-1238
	DB2	95	5.0 (0.197)	16.4 ± 1.8 (0.646 ± 0.071)	1.5 (0.059)	1.0 (0.039)	20.0 (0.787)		
	DB7	110	5.0 (0.197)	16.4 ± 1.8 (0.646 ± 0.071)	1.5 (0.059)	1.2 (0.048)	20.0 (0.787)		
SD	DB5	9	15.0 (0.591)	18.3 ± 3.5 (0.720 ± 0.138)	4.0 (0.157)	4.5 (0.177)	32.0 (1.260)		
	DB1/3	20	15.0 (0.591)	18.3 ± 3.5 (0.720 ± 0.138)	4.0 (0.157)	4.5 (0.177)	32.0 (1.260)		
	DB6	20	15.0 (0.591)	18.3 ± 3.5 (0.720 ± 0.138)	4.0 (0.157)	6.8 (0.268)	32.0 (1.260)	39.7 (1.563)	614-1239
	DB2/7			<i>on request</i>					
RB	DB5	30	4.0 (0.157)	15.8 ± 1.3 (0.622 ± 0.051)	2.0 (0.079)	0.5 (0.020)	19.0 (0.748)		
	DB1/3	65	4.0 (0.157)	15.8 ± 1.3 (0.622 ± 0.051)	2.0 (0.079)	0.5 (0.020)	19.0 (0.748)		
	DB6	65	4.0 (0.157)	15.8 ± 1.3 (0.622 ± 0.051)	2.0 (0.079)	0.75 (0.030)	19.0 (0.748)	2.5 (0.098)	714-0260
	DB2	110	4.5 (0.177)	15.8 ± 1.6 (0.622 ± 0.063)	1.5 (0.059)	0.70 (0.028)	19.0 (0.748)		
	DB7	125	4.5 (0.177)	15.8 ± 1.6 (0.622 ± 0.063)	1.5 (0.059)	0.75 (0.030)	19.0 (0.748)		
RC	DB5	25	4.5 (0.177)	16.2 ± 1.5 (0.638 ± 0.059)	2.0 (0.079)	0.6 (0.024)	20.0 (0.787)		
	DB1/3	55	4.5 (0.177)	16.2 ± 1.5 (0.638 ± 0.059)	2.0 (0.079)	0.6 (0.024)	20.0 (0.787)		
	DB6	55	4.5 (0.177)	16.2 ± 1.5 (0.638 ± 0.059)	2.0 (0.079)	1.2 (0.048)	20.0 (0.787)	4.7 (0.185)	714-0261
	DB2	95	5.0 (0.197)	16.2 ± 1.8 (0.638 ± 0.071)	1.5 (0.059)	1.0 (0.039)	20.0 (0.787)		
	DB7	110	5.0 (0.197)	16.2 ± 1.8 (0.638 ± 0.071)	1.5 (0.059)	1.2 (0.048)	20.0 (0.787)		
RD	DB5	9	15.0 (0.591)	18.1 ± 3.5 (0.713 ± 0.138)	4.0 (0.157)	4.5 (0.177)	32.0 (1.260)		
	DB1/3	20	15.0 (0.591)	18.1 ± 3.5 (0.713 ± 0.138)	4.0 (0.157)	4.5 (0.177)	32.0 (1.260)		
	DB6	20	15.0 (0.591)	18.1 ± 3.5 (0.713 ± 0.138)	4.0 (0.157)	6.8 (0.268)	32.0 (1.260)	39.7 (1.563)	714-0262
	DB2/7			<i>on request</i>					
WB*	DB5	24	4.5 (0.177)	11.1 ± 1.5 (0.437 ± 0.059)	2.0 (0.079)	0.6 (0.024)	15.0 (0.591)		
	DB1/3	50	4.5 (0.177)	11.1 ± 1.5 (0.437 ± 0.059)	2.0 (0.079)	0.6 (0.024)	15.0 (0.591)		
	DB6	50	4.5 (0.177)	11.1 ± 1.5 (0.437 ± 0.059)	2.0 (0.079)	0.9 (0.035)	15.0 (0.591)	7.0 (0.276)	614-1247
	DB2	85	4.5 (0.177)	11.1 ± 1.5 (0.437 ± 0.059)	2.0 (0.079)	0.6 (0.024)	15.0 (0.591)		
	DB7	100	4.5 (0.177)	11.1 ± 1.5 (0.437 ± 0.059)	2.0 (0.079)	0.9 (0.035)	15.0 (0.591)		
WC*	DB5	18	6.0 (0.236)	12.2 ± 1.8 (0.480 ± 0.071)	3.0 (0.118)	0.8 (0.031)	17.0 (0.669)		
	DB1/3	38	6.0 (0.236)	12.2 ± 1.8 (0.480 ± 0.071)	3.0 (0.118)	0.8 (0.031)	17.0 (0.669)		
	DB6	38	6.0 (0.236)	12.2 ± 1.8 (0.480 ± 0.071)	3.0 (0.118)	1.2 (0.047)	17.0 (0.669)	14.0 (0.551)	614-1253
	DB2	63	6.0 (0.236)	12.2 ± 1.8 (0.480 ± 0.071)	3.0 (0.118)	0.8 (0.031)	17.0 (0.669)		
	DB7	75	6.0 (0.236)	12.2 ± 1.8 (0.480 ± 0.071)	3.0 (0.118)	1.2 (0.047)	17.0 (0.669)		
VB*	DB5	25	4.5 (0.177)	11.9 ± 1.4 (0.469 ± 0.055)	2.0 (0.079)	0.6 (0.024)	15.0 (0.591)		
	DB1/3	55	4.5 (0.177)	11.9 ± 1.4 (0.469 ± 0.055)	2.0 (0.079)	0.6 (0.024)	15.0 (0.591)		
	DB6	55	4.5 (0.177)	11.9 ± 1.4 (0.469 ± 0.055)	2.0 (0.079)	0.9 (0.035)	15.0 (0.591)	5.6 (0.220)	714-0299
	DB2	90	4.5 (0.177)	11.9 ± 1.4 (0.469 ± 0.055)	2.0 (0.079)	0.6 (0.024)	15.0 (0.591)		
	DB7	105	4.5 (0.177)	11.9 ± 1.4 (0.469 ± 0.055)	2.0 (0.079)	0.9 (0.035)	15.0 (0.591)		
ZB*	DB5	25	4.5 (0.177)	16.0 ± 1.4 (0.630 ± 0.055)	1.5 (0.059)	0.6 (0.024)	19.0 (0.748)		
	DB1/3	55	4.5 (0.177)	16.0 ± 1.4 (0.630 ± 0.055)	1.5 (0.059)	0.6 (0.024)	19.0 (0.748)		
	DB6	55	4.5 (0.177)	16.0 ± 1.4 (0.630 ± 0.055)	1.5 (0.059)	0.9 (0.035)	19.0 (0.748)	5.2 (0.205)	614-1249
	DB2	90	4.5 (0.177)	16.0 ± 1.4 (0.630 ± 0.055)	1.5 (0.059)	0.6 (0.024)	19.0 (0.748)		
	DB7	105	4.5 (0.177)	16.0 ± 1.4 (0.630 ± 0.055)	1.5 (0.059)	0.9 (0.035)	19.0 (0.748)		

* For 85 °C only; plastic



Actuator Specifications - High Ratio

Actuator Code	Switch Type	Maximum Operating Force grams	Maximum Pre-Travel mm (in)	Operating Point mm (in)	Minimum Over-Travel mm (in)	Max. Movement Differential mm (in)	Max. Rest Position mm (in)	Actuation Length mm (in)		
MB	DB5	12	9.0 (0.354)	12.0 ± 2.5 (0.472 ± 0.098)	3.5 (0.138)	1.2 (0.047)	18.0 (0.709)	7.0 (0.276)	614-1232	
	DB1/3	25	9.0 (0.354)	12.0 ± 2.5 (0.472 ± 0.098)	3.5 (0.138)	1.2 (0.047)	18.0 (0.709)			
	DB6	25	9.0 (0.354)	12.0 ± 2.5 (0.472 ± 0.098)	3.5 (0.138)	1.8 (0.071)	18.0 (0.709)			
	DB2	40	9.0 (0.354)	12.0 ± 3.0 (0.472 ± 0.118)	3.5 (0.138)	1.5 (0.059)	18.0 (0.709)			
	DB7	45	9.0 (0.354)	12.0 ± 3.0 (0.472 ± 0.118)	3.5 (0.138)	1.8 (0.071)	18.0 (0.709)			
MC	DB5	10	10.0 (0.394)	12.5 ± 3.0 (0.492 ± 0.118)	4.0 (0.157)	1.4 (0.055)	20.0 (0.787)	9.4 (0.370)	614-1233	
	DB1/3	22	10.0 (0.394)	12.5 ± 3.0 (0.492 ± 0.118)	4.0 (0.157)	1.4 (0.055)	20.0 (0.787)			
	DB6	22	10.0 (0.394)	12.5 ± 3.0 (0.492 ± 0.118)	4.0 (0.157)	2.1 (0.083)	20.0 (0.787)			
	DB2	35	10.0 (0.394)	12.5 ± 3.5 (0.492 ± 0.138)	4.0 (0.157)	1.8 (0.071)	20.0 (0.787)			
	DB7	40	10.0 (0.394)	12.5 ± 3.5 (0.492 ± 0.138)	4.0 (0.157)	2.1 (0.083)	20.0 (0.787)			
MD	DB5	4	27.0 (1.063)	18.0 ± 8.0 (0.709 ± 0.315)	10.0 (0.394)	6.0 (0.236)	40.0 (1.575)	43.5 (1.713)	614-1234	
	DB1/3	9	27.0 (1.063)	18.0 ± 8.0 (0.709 ± 0.315)	10.0 (0.394)	6.0 (0.236)	40.0 (1.575)			
	DB6	9	27.0 (1.063)	18.0 ± 8.0 (0.709 ± 0.315)	10.0 (0.394)	9.0 (0.354)	40.0 (1.575)			
	DB2/7	--	--	--	--	--	--			
UB	DB5	14	9.0 (0.354)	17.2 ± 2.5 (0.677 ± 0.098)	3.5 (0.138)	1.2 (0.047)	22.0 (0.866)	4.7 (0.185)	614-1237	
	DB1/3	30	9.0 (0.354)	17.2 ± 2.5 (0.677 ± 0.098)	3.5 (0.138)	1.2 (0.047)	22.0 (0.866)			
	DB6	30	9.0 (0.354)	17.2 ± 2.5 (0.677 ± 0.098)	3.5 (0.138)	1.8 (0.071)	22.0 (0.866)			
	DB2	50	9.0 (0.354)	17.2 ± 3.0 (0.677 ± 0.118)	3.5 (0.138)	1.5 (0.059)	22.0 (0.866)			
	DB7	56	9.0 (0.354)	17.2 ± 3.0 (0.677 ± 0.118)	3.5 (0.138)	1.8 (0.071)	22.0 (0.866)			
UC	DB5	12	10.0 (0.394)	17.7 ± 3.0 (0.697 ± 0.118)	4.0 (0.157)	1.4 (0.055)	24.0 (0.945)	7.1 (0.280)	614-1238	
	DB1/3	25	10.0 (0.394)	17.7 ± 3.0 (0.697 ± 0.118)	4.0 (0.157)	1.4 (0.055)	24.0 (0.945)			
	DB6	25	10.0 (0.394)	17.7 ± 3.0 (0.697 ± 0.118)	4.0 (0.157)	2.1 (0.083)	24.0 (0.945)			
	DB2	40	10.0 (0.394)	17.7 ± 3.0 (0.697 ± 0.118)	4.0 (0.157)	1.8 (0.071)	24.0 (0.945)			
	DB7	45	10.0 (0.394)	17.7 ± 3.0 (0.697 ± 0.118)	4.0 (0.157)	2.1 (0.083)	24.0 (0.945)			
UD	DB5	4	27.0 (1.063)	23.2 ± 8.0 (0.913 ± 0.315)	10.0 (0.394)	6.0 (0.236)	44.0 (1.732)	41.2 (1.622)	614-1239	
	DB1/3	9	27.0 (1.063)	23.2 ± 8.0 (0.913 ± 0.315)	10.0 (0.394)	6.0 (0.236)	44.0 (1.732)			
	DB6	9	27.0 (1.063)	23.2 ± 8.0 (0.913 ± 0.315)	10.0 (0.394)	9.0 (0.354)	44.0 (1.732)			
	DB2/7	--	--	on request	--	--	--			
TB	DB5	14	9.0 (0.354)	17.0 ± 2.5 (0.669 ± 0.098)	3.5 (0.138)	1.2 (0.047)	22.0 (0.866)	4.7 (0.185)	714-0260	
	DB1/3	30	9.0 (0.354)	17.0 ± 2.5 (0.669 ± 0.098)	3.5 (0.138)	1.2 (0.047)	22.0 (0.866)			
	DB6	30	9.0 (0.354)	17.0 ± 2.5 (0.669 ± 0.098)	3.5 (0.138)	1.8 (0.071)	22.0 (0.866)			
	DB2	50	9.0 (0.354)	17.0 ± 3.0 (0.669 ± 0.118)	3.5 (0.138)	1.5 (0.059)	22.0 (0.866)			
	DB7	56	9.0 (0.354)	17.0 ± 3.0 (0.669 ± 0.118)	3.5 (0.138)	1.8 (0.071)	22.0 (0.866)			
TC	DB5	12	10.0 (0.394)	17.5 ± 3.0 (0.689 ± 0.118)	4.0 (0.157)	1.4 (0.055)	24.0 (0.945)	7.1 (0.280)	714-0261	
	DB1/3	25	10.0 (0.394)	17.5 ± 3.0 (0.689 ± 0.118)	4.0 (0.157)	1.4 (0.055)	24.0 (0.945)			
	DB6	25	10.0 (0.394)	17.5 ± 3.0 (0.689 ± 0.118)	4.0 (0.157)	2.1 (0.083)	24.0 (0.945)			
	DB2	40	10.0 (0.394)	17.5 ± 3.5 (0.689 ± 0.138)	4.0 (0.157)	1.8 (0.071)	24.0 (0.945)			
	DB7	45	10.0 (0.394)	17.5 ± 3.5 (0.689 ± 0.138)	4.0 (0.157)	2.1 (0.083)	24.0 (0.945)			
TD	DB5	4	27.0 (1.063)	23.0 ± 8.0 (0.906 ± 0.315)	10.0 (0.394)	6.0 (0.236)	44.0 (1.732)	41.2 (1.622)	714-0262	
	DB1/3	9	27.0 (1.063)	23.0 ± 8.0 (0.906 ± 0.315)	10.0 (0.394)	6.0 (0.236)	44.0 (1.732)			
	DB6	9	27.0 (1.063)	23.0 ± 8.0 (0.906 ± 0.315)	10.0 (0.394)	9.0 (0.354)	44.0 (1.732)			
	DB2/7	--	--	on request	--	--	--			
GB*	DB5	10	10.0 (0.394)	12.9 ± 2.6 (0.508 ± 0.102)	3.0 (0.118)	1.4 (0.055)	20.0 (0.787)	9.4 (0.370)	614-1247	
	DB1/3	21	10.0 (0.394)	12.9 ± 2.6 (0.508 ± 0.102)	3.0 (0.118)	1.4 (0.055)	20.0 (0.787)			
	DB6	21	10.0 (0.394)	12.9 ± 2.6 (0.508 ± 0.102)	3.0 (0.118)	2.1 (0.083)	20.0 (0.787)			
	DB2	36	10.0 (0.394)	12.9 ± 2.6 (0.508 ± 0.102)	3.0 (0.118)	1.4 (0.055)	20.0 (0.787)			
	DB7	42	10.0 (0.394)	12.9 ± 2.6 (0.508 ± 0.102)	3.0 (0.118)	2.1 (0.083)	20.0 (0.787)			
GC*	DB5	7	13.0 (0.512)	14.5 ± 3.6 (0.571 ± 0.142)	4.0 (0.157)	1.8 (0.071)	24.0 (0.945)	16.2 (0.638)	614-1253	
	DB1/3	16	13.0 (0.512)	14.5 ± 3.6 (0.571 ± 0.142)	4.0 (0.157)	1.8 (0.071)	24.0 (0.945)			
	DB6	16	13.0 (0.512)	14.5 ± 3.6 (0.571 ± 0.142)	4.0 (0.157)	2.4 (0.083)	24.0 (0.945)			
	DB2	26	13.0 (0.512)	14.5 ± 3.6 (0.571 ± 0.142)	4.0 (0.157)	1.8 (0.071)	24.0 (0.945)			
	DB7	30	13.0 (0.512)	14.5 ± 3.6 (0.571 ± 0.142)	4.0 (0.157)	2.4 (0.083)	24.0 (0.945)			
HB*	DB5	11	9.0 (0.354)	13.5 ± 2.5 (0.531 ± 0.098)	2.5 (0.098)	1.4 (0.055)	20.0 (0.787)	7.9 (0.311)	714-0299	
	DB1/3	23	9.0 (0.354)	13.5 ± 2.5 (0.531 ± 0.098)	2.5 (0.098)	1.4 (0.055)	20.0 (0.787)			
	DB6	23	9.0 (0.354)	13.5 ± 2.5 (0.531 ± 0.098)	2.5 (0.098)	2.1 (0.083)	20.0 (0.787)			
	DB2	29	9.0 (0.354)	13.5 ± 2.5 (0.531 ± 0.098)	2.5 (0.098)	1.4 (0.055)	20.0 (0.787)			
	DB7	45	9.0 (0.354)	13.5 ± 2.5 (0.531 ± 0.098)	2.5 (0.098)	2.1 (0.083)	20.0 (0.787)			
OB*	DB5	11	9.0 (0.354)	17.6 ± 2.5 (0.693 ± 0.098)	2.0 (0.079)	1.4 (0.055)	23.0 (0.906)	7.3 (0.287)	614-1249	
	DB1/3	23	9.0 (0.354)	17.6 ± 2.5 (0.693 ± 0.098)	2.0 (0.079)	1.4 (0.055)	23.0 (0.906)			
	DB6	23	9.0 (0.354)	17.6 ± 2.5 (0.693 ± 0.098)	2.0 (0.079)	2.1 (0.083)	23.0 (0.906)			
	DB2	29	9.0 (0.354)	17.6 ± 2.5 (0.693 ± 0.098)	2.0 (0.079)	1.4 (0.055)	23.0 (0.906)			
	DB7	45	9.0 (0.354)	17.6 ± 2.5 (0.693 ± 0.098)	2.0 (0.079)	2.1 (0.083)	23.0 (0.906)			

* For 85 °C only, plastic

PLEASE NOTE
 CHERRY
 will become
 ZF in 2017.

