

Dust protected Compact-sized Snap Action Switches

MQS-57 Series

Features

- ◇ Flux-resistant construction with integrally molded terminals.
- ◇ Suitable for the use in the watery, dusty and corrosive gas environment.



Actual size

Applications

- ◇ Cleaner , Refrigerator , Hot water pot

Products Number system

MQS-57 []-[]-[]-[]-[]

Contact form	Blank : Transfer type		A : COM-NO type	
Operating force (Pin plunger type)	3 : MAX1.23N (125gf)	5 : MAX1.96N (200gf)		
Actuator	Blank : Pin plunger type		L : Hinge lever	
	D : Simulated hinge lever			
Contact	Blank : Silver alloy	PT : PGS alloy		
Terminal	Blank : Lead wire terminal			

Typical Specifications

Item	Specifications			
Contact	Silver alloy contact type		PGS alloy contact type	
Operating force (Pin plunger type)	MAX 1.23N (125gf)	MAX 1.96N (200gf)	MAX 1.23N (125gf)	MAX 1.96N (200gf)
Ratings (Resistive load)	2A 125V AC 2A 30V DC		0.1A 125V AC 0.1A 30V DC	
Mechanical life	300,000 cycles			
Electrical life	30,000 cycles		100,000 cycles	
Contact resistance (Initial)	MAX 30 milliohm		MAX 100 milliohm	
Insulation Resistance	MIN 100 megohm 500V DC			
Withstanding voltage	Between open contacts : 600V AC 1min		Between each terminal and non live metal part : 1500V AC 1min	
			Between each terminal and each : 1500V AC 1min	
Resistibility to vibration (Pin plunger type)	double amplitude : 1.5mm , frequency : 10 to 55Hz Each direction Open contact shall be less than 1 ms at the above conditions.			
Resistibility to shock (Pin plunger type)	Open contact shall be less than 1 ms at 30G.			
Allowable operating speed (at no load)	1 to 500 mm/sec.			
Max. operating cycle rate (at no load)	120 times/min.			
Operating temperature range	-20 to +70 degree Celsius			
Ambient humidity	MAX 85%RH			

Products line

Transfer type : MQS-57[]-_-L ([] is blank)

COM-NO type : MQS-57[A]-_-L (A in [])

Actuator	No	Operating force (MAX)	Silver alloy	PGS alloy
			Products No.	Products No.
Pin plunger type (Blank)	1	1.23N (125gf)	MQS-57[]-3	MQS-57[]-3PT
		1.96N (200gf)	MQS-57[]-5	MQS-57[]-5PT
Hinge lever (L)	2	0.39N (40gf)	MQS-57[]-3L	MQS-57[]-3LPT
		0.64N (65gf)	MQS-57[]-5L	MQS-57[]-5LPT
Simulated hinge lever (D)	3	0.39N (40gf)	MQS-57[]-3D	MQS-57[]-3DPT
		0.64N (65gf)	MQS-57[]-5D	MQS-57[]-5DPT

Operating characteristic

Actuator	Operating force code	O.F. MAX.	R.F. MIN	P.T. MAX	M.D. MAX	O.T. MIN	O.P.
Pin plunger type (Blank)	3	1.23N	0.147N	0.6	0.12	0.25	7.0 plus or minus 0.2
	5	1.96N	0.245N				
Hinge lever (L)	3	0.39N	0.029N	3.0	0.5	0.5	8.3 plus or minus 0.1
	5	0.64N	0.049N				
Simulated hinge lever (D)	3	0.39N	0.029N	3.0	0.5	0.5	11.3 plus or minus 0.1
	5	0.64N	0.049N				

Dimension

Unit : mm

No	Style	Operating characteristic	
1	<p>Pin plunger type</p>	P.T. MAX	0.6mm
		M.D. MAX	0.12mm
		O.T. MIN	0.25mm
		O.P. From fixing hole	7 plus or minus 0.2mm
		O.P. From fixing face	9.2 plus or minus 0.35mm

