







SUBMINIATURE MICROSWITCH (SPDT) ROBUST – SEALED – HIGH PRECISION

MP 500 SERIES

- High precision snap-action spring mechanism
- Electrical Ratings (resistive load): 0,1A/24VDC, 5A/250VAC
- Reliable operation, even at extremely slow actuating speed
- Very low differential travel: down to 0,02 mm max (0,0008 in)
- Operating temperatures: -40°C to +125°C
- Degree of protection: IP67/IP69
- Choice of terminals and cable configurations
- Wide range of actuators on 2 fixing positions (A & B)



Main specifications		
Termination Options		
Solder terminals		
PCB terminals		
Cable materials: PVC/PUR/SI		up to 0.5 mm ² (5A)
EN /UL Certifications		
Electrical Rating max (resistive load)		5RA 250 VAC
Electrical Rating max (resistive load) for gold plated terminals		0.1RA 24 VDC
Number of cycles certified		50 000
Mechanical characteristics		
Operating force max		2.5 N – optional 1.2 N
Release force min		0.5 N
Rest position		9.2 ± 0.2 mm
Operating position		8.8 ± 0.2 mm
Differential travel max		0.05 mm – optional 0.02 mm
Overtravel min		0.5 mm
Operating temperature		-40 °C to 125 °C
Mechanical life		10 000 0000
B _{10d} (24VDC – 10mA, 100 cycles/min)		3 Mio
Contact gap		Min 0.25 mm
Additional specifications		
Conformity/ certification	EN/UL 61058-1-1 UL file E314075	   
Degree of protection		IP67 / IP69
Housing & button		PBT + 30% fiberglass UL94-V0
Dimensions		DIN 41 635, form B (20x16x6.5 mm) (0.7874 x 0.6299 x 0.2559 in)
Moving blade		Beryllium copper
Contacts		Silver alloy
Terminals material		brass
Pollution degree		3
Proof tracking index PTI		250V
Rated Impulse Withstand Voltage		2.5 kV
Glow-wire temp.		850°C
Micro-disconnection		μ
Electric shock class		II / U imp. 2500 V
Product adaptations		
<ul style="list-style-type: none"> ➤ Special actuators: special shapes and lengths ➤ Special cable exit, length and material ➤ Increased or reduced differential travel. ➤ Low actuating force ➤ Gold plated contacts ➤ Other adaptations on demand 		

V5 – Design and specifications are subject to change for improvement without prior notice.