



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	9.0 ±0.2 mm
Operating position	8.8 ±0.2 mm
Differential travel max	0.05 mm – optional 0.02 mm
Overtravel min	0.6 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 	



V4 – Design and specifications are subject to change for improvement without prior notice.