

Microswitch - SERIES MP400

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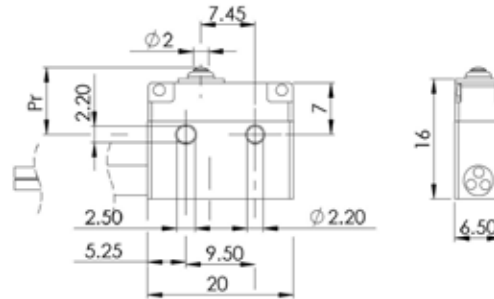


MP400

Small standardized subminiature microswitch. The MP400 Series offers various possibilities of customization in the area of levers and cable choices. The switch is ideal for numerous applications with its small size, combined with high precision and small differential travel.

Series MP400





MP400

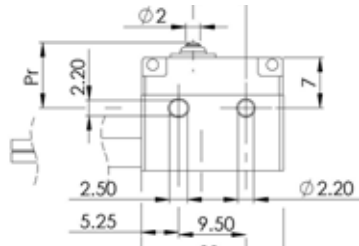
Approval

EN 61058-1	250VAC/5A	25'000 cycles
EN 61058-1	250VAC/2A	50'000 cycles
UL 61058-1	250VAC/5A	25'000 cycles
UL 61058-1	250VAC/2A	50'000 cycles
Resistive load		

Housing	Plastic reinforced with glass fiber (PA 6T/66)
Pin Button	PES
Membrane	Fluorosilicone
Switching Circuit	Change over - snap action with blade spring in copper/beryllium and stainless steel spring
Contact	Silver - optional gold
Connection	Cable Various cable exit option: Standard - Opposite - Underside PVC -20°C to +70°C PVCU -20°C to +70°C (Approval UL) PUR -40°C to +90°C SI -40°C to +105°C Other material optional
Actuator	Stainless steel
Degree of Protection	Housing IP67 Connection IP67
Class of Protection	II
Micro-switching	μ
Distance between Contacts	0.40 mm
Dimensions	DIN 41 635, form B 20 x 16 x 6.5 mm
Actuation Force	1.0 to 2.5 N, depending on the lever
Differential Travel	0.05 mm - Optional 0.02 mm
Temperature Range	EN 61058-1 -40°C to +105°C UL 61058-1 -40°C to +105°C Cable selection may reduce temperature range
Mechanical Life	10 x 10 ⁶ cycles

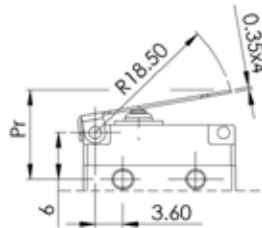
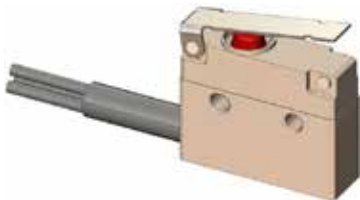
Series MP400

Type 0: Basic switch - Pin Button



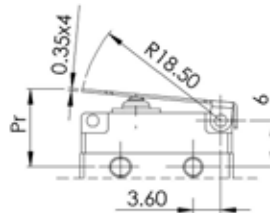
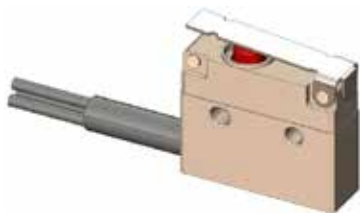
Actuating Force Fa max. (N)	2.5
Release Force Fr min. (N)	0.5
Free Position Pr (mm)	9.3 ± 0.2
Operating Position Pa (mm)	9.0 ± 0.2
Over-Travel sr min. (mm)	0.6
Differential Travel sd max. (mm)	0.05

Type 7JA: Simple Lever - position A



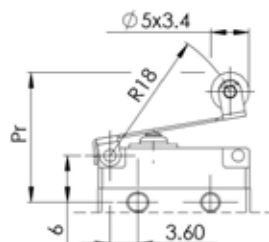
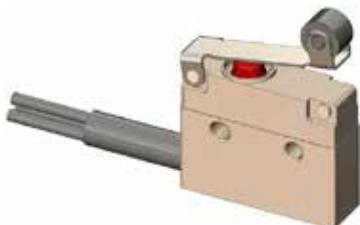
Actuating Force Fa max. (N)	1.0
Release Force Fr min. (N)	0.15
Free Position Pr (mm)	12.0 ± 0.4
Operating Position Pa (mm)	10.6 ± 0.4
Over-Travel sr min. (mm)	1.2
Differential Travel sd max. (mm)	0.40

Type 7JB-: Simple Lever - position B



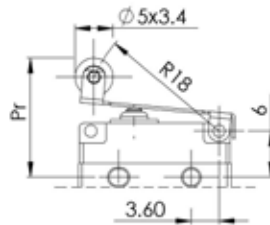
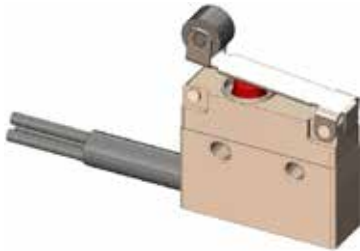
Actuating Force Fa max. (N)	2.0
Release Force Fr min. (N)	0.3
Free Position Pr (mm)	10.3 ± 0.4
Operating Position Pa (mm)	9.7 ± 0.4
Over-Travel sr min. (mm)	0.6
Differential Travel sd max. (mm)	0.30

Type 8JAL: Simple Lever with Roller - position A



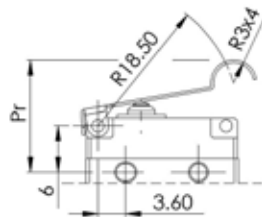
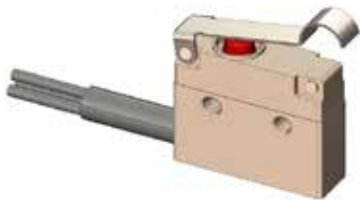
Actuating Force Fa max. (N)	1.0
Release Force Fr min. (N)	0.15
Free Position Pr (mm)	17.2 ± 0.4
Operating Position Pa (mm)	16.0 ± 0.4
Over-Travel sr min. (mm)	1.2
Differential Travel sd max. (mm)	0.40

Type **8JBL**: Simple Lever with Roller - position B



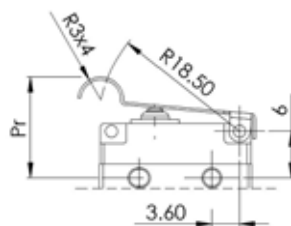
Actuating Force F_a max. (N)	2.0
Release Force F_r min. (N)	0.3
Free Position P_r (mm)	15.7 ± 0.4
Operating Position P_a (mm)	15.1 ± 0.4
Over-Travel s_r min. (mm)	0.6
Differential Travel s_d max. (mm)	0.30

Type **8JAGS**: Simple Lever with Simulated Roller - position A



Actuating Force F_a max. (N)	1.0
Release Force F_r min. (N)	0.15
Free Position P_r (mm)	14.7 ± 0.4
Operating Position P_a (mm)	13.5 ± 0.4
Over-Travel s_r min. (mm)	1.2
Differential Travel s_d max. (mm)	0.40

Type **8JBGS**: Simple Lever with Simulated Roller - position B



Actuating Force F_a max. (N)	2.0
Release Force F_r min. (N)	0.3
Free Position P_r (mm)	13.2 ± 0.4
Operating Position P_a (mm)	12.6 ± 0.4
Over-Travel s_r min. (mm)	0.6
Differential Travel s_d max. (mm)	0.30

Actuator Code	Circuit	Color
0 7JA / 7JB 8JAL / 8JBL 8JAGS / 8JBGS		1 : Brown 2 : White 4 : Green

Optional cable and wire exit

Standard exit	Opposite exit "S"	Underside exit "C"

Series MP400

MP43 0 - 7JA / 3 25 / 100 PVC

Contact

- 0:** Silver Contact
- 1:** Gold Contact

Actuator

- 0:** Basic switch - Pin Button
- 7JA:** Simple Lever - position A
- 7JB:** Simple Lever - position B
- 8JAL:** Simple Lever with Roller - position A
- 8JBL:** Simple Lever with Roller - position B
- 8JAGS:** Simple Lever with simulated Roller - position A
- 8JBGS:** Simple Lever with simulated Roller - position B

Number of conductors

- 3:** Change over

Cross section

- 25:** 0.25mm², 250VAC / 2A
- 50:** 0.50mm², 250VAC / 5A (PVC only)

Cable length in centimeters (cm)

Cable material

- PVC:** Polyvinyl Chloride -20°C to +70°C
- PVCU:** Polyvinyl Chloride -20°C to +70°C (Approval UL)
- PUR:** Polyurethane -40°C to +90°C
- SI:** Silicone -40°C to +105°C

Optional cable and wire exit

- Standard exit - without code
- S:** Opposite exit
- C:** Underside exit