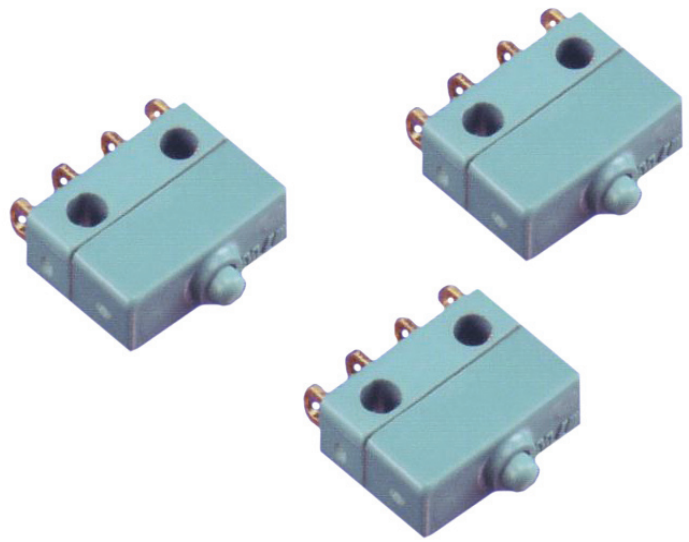


SERIES 18 - SNAP ACTION SWITCH

The Series 18 is ITW Switches' smallest Snap Action switch. It is a single pole with a self cleaning 'butterfly' mechanism. This gives a high performance switch in terms of life and load ability, switching from logic loads to 8A max.

The series comes in gold double break, snap action contacts with gold solder terminals as standard. PCB terminals and custom brackets and actuators are available as non-standard options. Its small size, high performance and high temperature rating, provide a switch that is suitable for many demanding applications.

The switch has UL and MIL-Specification approval according to version.



APPLICATIONS:

- Industrial valve controls
- Aircraft rotary actuator
- Aircraft linear actuator
- Float control pumps
- Spool valves
- Medical equipment
- Aircraft fuel valves
- Pressure switches

KEY FEATURES:

- Gold contacts
- Solder terminals
- Meets MIL-S-8805/76
- UL recognized and CSA certified:
Lever and roller actuator are available
- Diallyl Phthalate body (DAP) –
wide temperature range
- Form Z contact – covers all switching
requirements
- Snap action – uses high integrity butterfly action

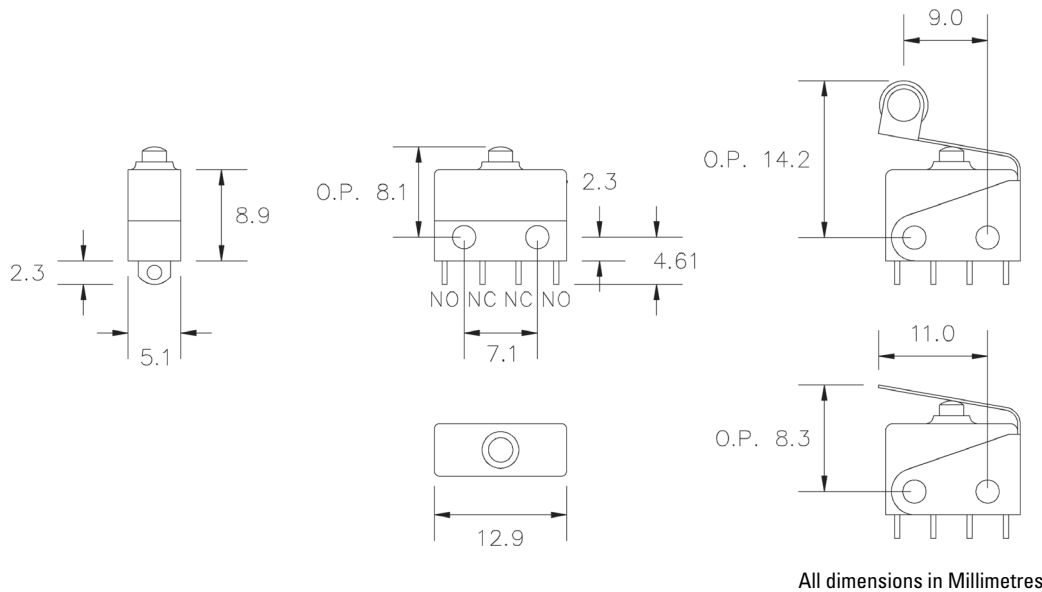
NON-STANDARD OPTIONS:

- PCB terminals
- Custom brackets and actuators

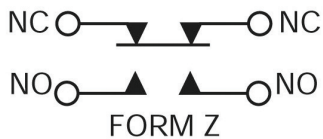
ACTION INFORMATION:

There are a number of actuators designed to fit directly onto the Snap Action Switch. These include leaf, roller levers and pushbuttons. If you have an application that requires an actuator with the Series 18 Snap Action Switch then please contact the Sales Office.

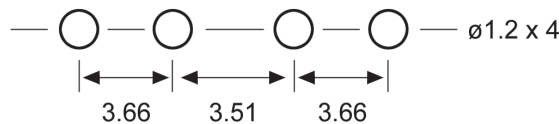
PRODUCT DRAWINGS



CIRCUIT FORM



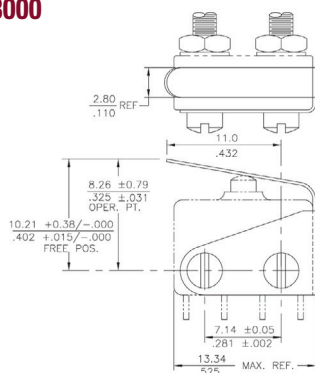
PCB PIN LAYOUT (VIEWED FROM EITHER SIDE)



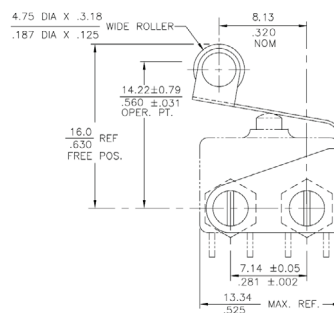
All dimensions in Millimetres

ACTUATOR

78-3000



78-3100



MECHANICAL CHARACTERISTICS

Part Number	Operating Force	Release Force	Pretravel	Overtravel	Movement Diff.	Operating Point
78-3000 Spring Lever	6 ± 2 oz	2 oz min	.125 max	.030 min	.030 ± .015	.325 ± .030
78-3100 Roller Lever	6 ± 2 oz	2 oz min	.125 max	.030 min	.035 ± .015	.560 ± .030

ORDERING INFORMATION

18-40919 - 2A, gold contacts, solder terminals through the bottom of the case

18-488051 - 8A, gold contact, MIL-SPEC approved, solder terminals through the bottom of the case

MECHANICAL / ELECTRICAL / ENVIRONMENTAL CHARACTERISTICS:

Pretravel (max):
0.9mm

Overtravel (min):
0.1mm to 0.15mm

Movement differential (nom):
0.4mm

Operating point:
8.13mm ±0.4mm

Mechanical Life (min):
10,000,000 cycles

Operating force (max):
2.2N

Current (max):
8A resistive 250 VAC (18-488051)
2A resistive 250 VAC (18-40919)

Current (min):
5mA resistive 5 VDC

Electrical Life (min):
100,000 cycles

Dielectric strength (min):
1 KVAC, 1 minute

Insulation resistance (min):
1GΩ at 500 VDC

Contact resistance (initial):
25mΩ

Ingress protection:
IP40

Shock:
50g

Temperature rating:
-55°C to +180°C