5-AMP SUB-MINIATURE SWITCHES

This fully sealed snap action switch series is ideal for applications in harsh environments where ingress of water and dust must be prevented.

APPLICATIONS

- Industrial equipment
- Battery chargers for cordless tools
- Medical equipment
- Welding guns

KEY FEATURES:

- Insert molded terminals fully sealed base
- Meets IP67
- BEAB and ENEC approvals
- SPDT (Form C) circuitry

- Choice of actuator
- · Silver or gold contacts
- Non-flammable switch UL94-V0 rated materials



ACTUAL SIZE

ORDERING INFORMATION:

Part Number	Contacts	Actuator Style*	Terminal Style	Sealed	RoHS Compliant	IP67 Compliant
19N402	Silver	Plunger	Solder	Yes	✓	1
19N402L18	Silver	Leaf lever	Solder	Yes	/	✓
19N402R15	Silver	Roller lever	Solder	Yes	✓	✓
19N403	Silver	Plunger	Solder	No	✓	_
19N412	Gold	Plunger	Solder	Yes	1	✓
19N502	Silver	Plunger	P.C.	Yes	/	✓
19N503	Silver	Plunger	P.C.	No	1	_
19N512	Gold	Plunger	P.C.	Yes	1	✓
19N602	Silver	Plunger	Q.C.	Yes	/	✓
19N603	Silver	Plunger	Q.C.	No	✓	_
19N702	Silver	Plunger	Wire Leads	Yes	1	✓
19N712	Gold	Plunger	Wire Leads	Yes	/	✓
19N703	Silver	Plunger	Wire Leads	No	✓	_
19N713	Silver	Plunger	Wire Leads	No	1	_
19N920	Gold	Plunger	P.C. Right Angle (L)	Yes	_	1
19N922	Gold	Lever	P.C. Right Angle (R)	Yes	_	1
19N922	Gold	Lever	0 0 1 7	Yes		1

"Note: Lever and roller lever actuator are available as options on most switches. Consult factory

STANDARDS / AGENCY / RATINGS:



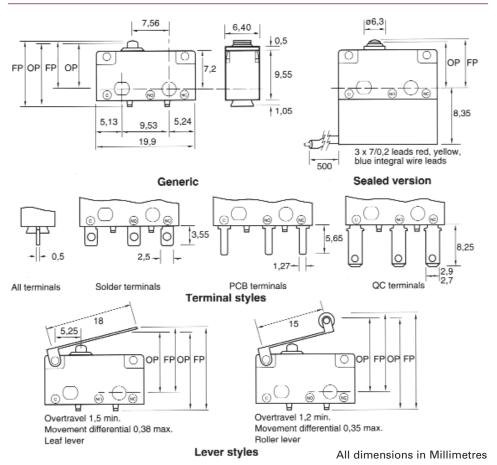








PRODUCT DRAWINGS



BUTTON / LEVER POSITIONS:

Free position (F.P)

Standard switch to mounting holes	0.360 inches / 9,14mm (max)
Standard switch to PCB	0.486 inches / 12,35mm (max)
Sealed switch to mounting holes	0.368 inches / 9,35mm (max)
Leaf lever to mounting holes	0.492 inches / 12,50mm (max)
Leaf lever to PCB	0.618 inches / 15,70mm (max)
Roller lever to mounting holes	0.677 inches / 17,20mm (max)
Roller lever to PCB	0.803 inches / 20,40mm (max)
Leaf lever to PCB	0.618 inches / 15,70mm (max) 0.677 inches / 17,20mm (max)

Operating point (0.P)

•	
Standard switch to mounting holes	\dots 0.330 inches ±.016 / 8,40mm ± 0,40
Standard switch to PCB	0.457 inches $\pm .016$ / 11,60mm $\pm 0,40$
Sealed switch to mounting holes	0.335 inches±.016 / 8,50mm ± 0,40
Leaf lever to mounting holes	0.400 inches±.054 / 10,15mm ± 1,37
Leaf lever to PCB	0.527 inches $\pm .054$ / 13,38mm \pm 1,37
Roller lever to mounting holes	0.610 inches ±.045 / 15,50mm ± 1,14
Roller lever to PCB	0.719 inches ±.045 / 18,25mm ± 1,14

MECHANICAL / ELECTRICAL CHARACTERISTICS:

Overtravel:

.2mm (min) depress to case

Movement differential:

.1mm reference

Mechanical life:

10,000,000 operations

Operating force:

2.0 N (203.9 gf) sealed 1.5 N (153.0 gf) sealed

Ingress protection:

IP67

Temperature:

-40°C to +125°C (-40°F to +257°F)

Body material:

Nylon 46

Contacts:

Silver—Silver nickel alloy Gold—5 microns of gold on copper/nickel

Terminals:

QC — Brass

PCB — Tin plated brass

Solder — Brass

Electrical Rating (Silver):

250VAC (res.) — 5A (Max)

250VAC (ind.) — 1A (Max)

28VDC (res.) — 3A (Max)

28VDC (ind.) — 1A (Max)

Electrical Rating (Gold):

28VDC (res.) — 100mA (Max)

Electrical Life (nominal):

100,000 operations

Dielectric strength:

1000 VAC

Insulation resistance:

1 G Ohm

Contact resistance (initial):

20m Ω (max) gold,

50m Ω (max) silver

Contact bounce:

5 millisecond (max),

1 millisecond per each pulse



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