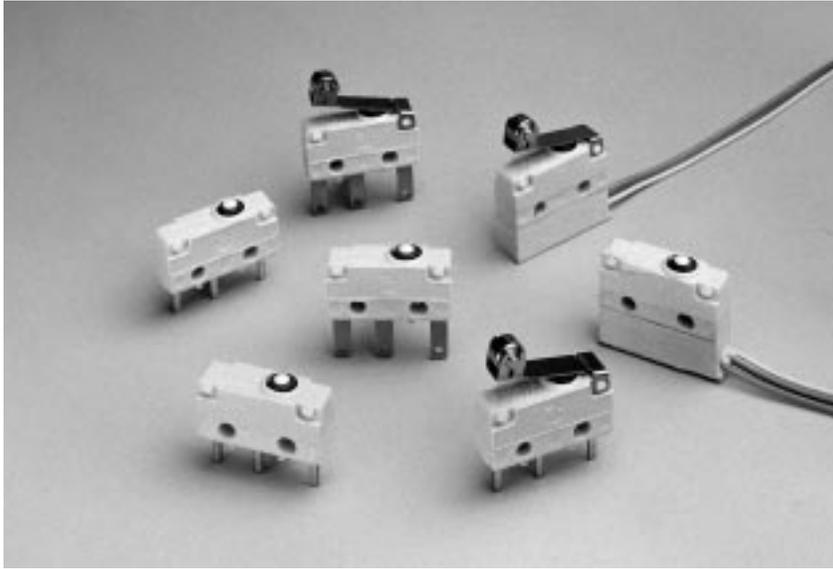


## Series 19N – Sealed, Sub-Miniature



### Typical Applications

- Basic switch for specialty switches
- Industrial equipment
- Battery chargers for cordless tools



actual size



Form C

### Features

- Insert molded terminals – fully sealed base
- Fully sealed – to IP67
- Wide temperature range –  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $+257^{\circ}\text{F}$ )
- Choice of actuators as standard
- Approvals: VDE and BEAB
- Non flammable switch – UL94-VO rated

### Electrical Characteristics

#### Silver Contacts:

- 250 VAC Resistive - 5A max
- 250 VAC Inductive - 1A max
- 28 VDC Resistive - 3A max
- 28 VDC Inductive - 1A max

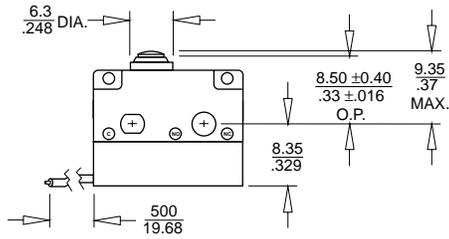
#### Gold Contacts:

- 28 VDC Resistive - 100 mA max

### Ordering Information

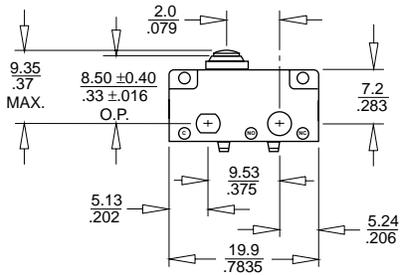
Part Number	Contacts	Actuator Style	Terminal Style
19N403*	Silver	Plunger	Q.C.
19N502	Silver	Plunger	P.C.
19N502R15	Silver	Roller Lever	P.C.
19N512	Gold	Plunger	P.C.
19N512R15	Gold	Roller Lever	P.C.
19N602	Silver	Plunger	Q.C.
19N602R15	Silver	Roller Lever	Q.C.
19N702	Silver	Plunger	Wire Leads
19N702R15	Silver	Roller Lever	Wire Leads

\*Non-Sealed.



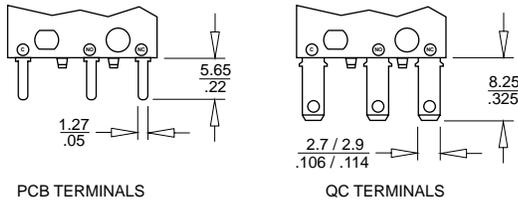
3 x 7/0.2 LEADS RED, YELLOW, BLUE INTEGRAL WIRE LEADS

Sealed Wired Version



Sealed Terminal Version

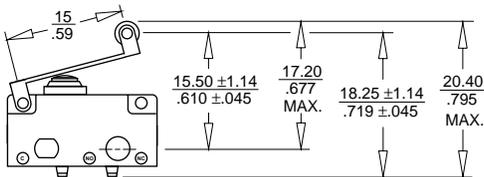
Terminal Style



PCB TERMINALS

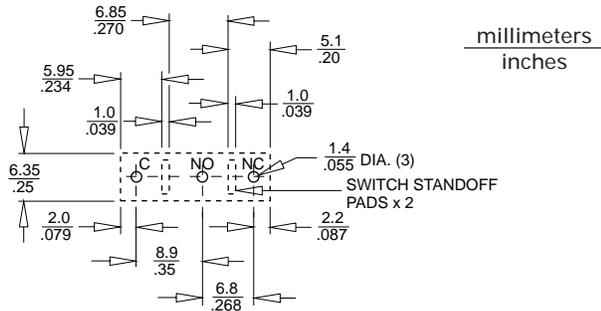
QC TERMINALS

Lever Style



OVERTRAVEL 1.2 MIN  
MOVEMENT DIFFERENTIAL 0.35 MAX.  
ROLLER LEVER

PCB Layout



millimeters  
inches

Overtravel: .2mm (min) depress to case  
Movement differential: .1mm reference  
Mechanical life: 10,000,000 operations  
Operating force: 2.0 N (204.12 g)

### Environmental and Physical Data

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: Q.C. - Brass

PCB - Tin plated brass

### Electrical Characteristics

Life (nominal): 100,000 operations

Dielectric strength: 1000 VAC

Insulation resistance: 1GΩ

Contact resistance (initial): 20mΩ  
(max) silver, 50mΩ (max) gold

Contact bounce: 5ms (max), 1ms per individual pulse