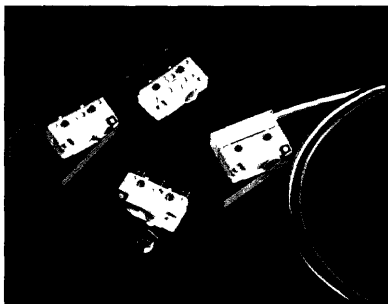

Series 19N

MICROSWITCH



//TW Switches



Series 19N

MICROSWITCH

Description

This miniature microswitch (the standard V4 size) has been designed in line with similar competitive products, but because of automation, offers consistent high quality levels for volume applications, at no extra cost. The switch mechanism used is the well proven spring and blade method, and is offered in a choice of operating forces.

Other standard options include gold or silver contacts; PCB, solder or QC terminals, and integral wire lead versions. All versions have a fully sealed base right up to the bottom opening. In addition, sealed button versions are totally environmentally sealed.

Features

- Insert moulded terminals – fully sealed base
- Fully sealed version – to IP67
- Wide temperature range – -40°C to $+125^{\circ}\text{C}$
- Choice of actuators as standard
- Approved product – VDE and BEAB
- Non flammable switch – UL94-VO rated

Non-Standard Options

- Leaf lever available in variable lengths (see ordering information)
- Custom levers/brackets
- Multiple pole 'ganged' versions

Specification

Mechanical

Overtravel	0,2mm (min) depress to case
Movement differential	0,1mm reference
Mechanical life	10,000,000 cycles
Operating force	See ordering information

Electrical (at 125°C)

Current (max) for silver contact versions (Inductive rating 0,6 PF)

Low operating force:	Standard operating force:
250 VAC Resistive 2A	250 VAC Resistive 5A
250 VAC Inductive 1A	250 VAC Inductive 1A
28 VDC Resistive 2,5A	28 VDC Resistive 3A
28 VDC Inductive 1A	28 VDC Inductive 1A

All gold contact versions: 100mA 28 VDC Resistive

Current (min)

All silver contact versions	10mA 5 VDC Resistive
All gold contact versions	1mA 5 VDC Resistive

Life (nominal) – full load	100,000 cycles
Dielectric strength	1000 VAC
Insulation resistance	1G Ω
Contact resistance (initial)	20m Ω (max) silver, 50m Ω (max) gold
Contact bounce	5ms (max), 1ms per individual pulse

Environmental & Physical

Ingress protection	
– with unsealed button	IP40
– with sealed button	IP67
Temperature	-40°C to $+125^{\circ}\text{C}$
Button material	Polyester
Body Material	Nylon 46
Contacts	
– silver versions	Silver nickel alloy
– gold versions	5 microns of gold on copper/nickel
Terminals	
– solder & PCB versions	Tin plated brass
– QC versions	Brass

Approvals





* L18 represents that this lever is 18mm long (see product drawing) Non standard leaf lever lengths are available in 1mm increments from 18mm to 63mm You may specify required lever length from between 18mm to 63mm as a non standard option If required, please reference the Sales Office

