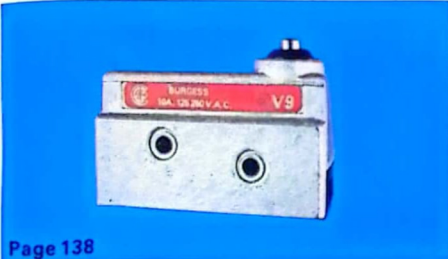


Burgess

V9 Series Sealed Miniature Micro Switches

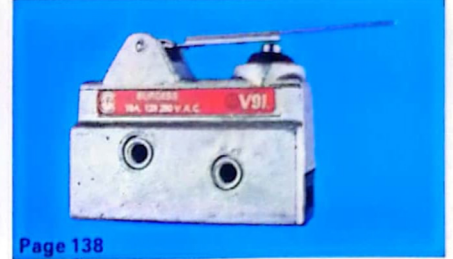
Single-pole, snap-action, changeover micro switches which are sealed against the ingress of liquid and are pressure tested. Their screw terminals are arranged in a channel provided with a removable insulated cover which facilitates the running-in of sealing compound on site. Three models have metal cases and two have plastic cases, the use of the latter being recommended when insulation resistance of a high value is required. Metal cased models with factory-connected and potted wires and which carry an explosion-proof component approval are listed in the Explosion-Proof Switches section, see page 199.



Page 138
Plunger actuator metal case



Page 138
Roller-lever actuator metal case



Page 138
Plain lever actuator metal case



Page 139
Plunger actuator nylon case



Page 139
Roller-lever actuator nylon case



Page 139
Insulated cable box

Individual descriptions of these switches appear on the pages shown.

Construction

Mechanism
Single-pole, snap-action, using a coil spring as an energy store. Changeover working, with normally open only or normally closed only working available. The moving contact is silver and the fixed contacts are silver cadmium oxide.

Enclosure
Either a metal or plastic. Insulation and base cover plate in plastic. Synthetic rubber plunger cowl.

Actuators
Integral levers in stainless steel. Roller in plastic.

Terminals
Three 6 BA screws with captive washers are located in stepped channels able to accommodate single-core cables up to 3 mm outside diameter.

Electrical Ratings

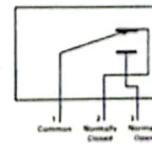
Ratings are recommended maxima and are in amperes.

| Voltage | Resistive Load | Tungsten Lamp Load | | Inductive Load |
|----------|----------------|--------------------|------|----------------|
| | | NC | NO | |
| AC | | | | |
| 125 | 10 | 2 | 1 | 10 |
| 250 | 10 | 1.5 | 1 | 10 |
| DC | | | | |
| Up to 15 | 15 | 3 | 1.5 | 15 |
| 30 | 10 | 3 | 1.5 | 10 |
| 50 | 3 | 0.8 | 0.8 | 2.5 |
| 75 | 1 | 0.6 | 0.6 | 0.5 |
| 125 | 0.5 | 0.5 | 0.5 | 0.1 |
| 250 | 0.25 | 0.25 | 0.25 | 0.05 |

Installation and Service

Mounting
Two side-mounting holes for M3 or #4 screws.

Diagram of Connections



Environmental Data
The mechanism enclosure is sealed and pressure tested. When terminals and wire tails are protected with a suitable approved compound the complete units conform to IEC Code IP67, NEMA Type 6. Switches with factory-attached wires – see page 199 – are supplied to this degree of protection.

Service
Regular checks for cleanliness and security are advocated.

Approvals

Metal-cased models are CSA and UL Approved. Consult Burgess about plastic-cased models.

Cross References

BASEEFA approved metal cased models with factory-fitted wires – pages 74-76 and 199.
Unsealed compact switches – pages 46 and 136-137.

V9NLR



Actuator Mechanism Integral lever with free-running roller Changeover

| | | |
|------------------------------------|---|----------|
| Terminals | Three 6BA screws with captive washers. Detachable base cover provided. Insulated cable box available – see below | |
| Electrical Rating | Recommended maximum 10A on 125 or 250 vac. Full ratings on page 47 | |
| Free Position (max) | 29.2 mm | 1.15 in |
| Operating Position | 27.2 | 1.07 in |
| | ± 0.4 mm | |
| Movement Differential (max) | 0.4 mm | 0.016 in |
| Available Overtravel | 0.76 mm | 0.03 in |
| Actuating Force (max) | 7.2 N | 26 ozf |
| Release Force (min) | 1.1 N | 4 ozf |
| Mechanical Life | In excess of 10 million operations | |
| Enclosure | Nylon case protects sealed mechanism which is pressure tested When suitable compound is run into the terminal channels after making connections, the unit will conform to IEC Code IP67, NEMA type 6 | |
| Temperature | -10° to +85°C. | |
| Weight | 26 g max | |
| Approvals* | UL | |

This model and similar models in the V9 Series are described in detail on page 47

