

# V9B

## Enclosed Terminal Positive action Switches

Miniature

### V9B

Characteristics	<ul style="list-style-type: none"> <li>■ Positive-action (forced break) contacts</li> <li>■ &gt;3 mm contact gap at full travel</li> <li>■ Robust metal housing</li> <li>■ IEC IP67 sealed mechanism</li> <li>■ High temperature unwired versions</li> <li>■ Pre-wired options - vertical and horizontal leads</li> </ul>
Rating	Up to 250 VAC, 10 A
Dimensions (mm)	42.3 × 28.1 × 16 42.3 × 32 × 16 (lever variant)
Actuator	Plunger, roller levers
Approvals	UL and CSA



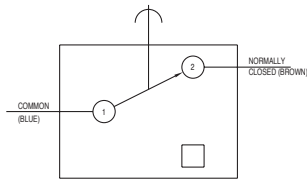
### Preferred Range

Ordering Reference	Actuating Force (N) (ozf)		Sealing	Terminal	Circuit	Actuator	Contacts	Electrical rating
V9B	2.5	9.0	IP67	M3 screw	NC	Plunger	Silver	Up to 250 VAC, 10 A
V9BVC2	2.5	9.0	IP67	Pre-wired	NC	Plunger	Silver	Up to 250 VAC, 10 A
V9BLR	2.7	9.7	IP67	M3 screw	NC	Roller lever	Silver	Up to 250 VAC, 10 A
V9BLRVC2	2.7	9.7	IP67	Pre-wired	NC	Roller lever	Silver	Up to 250 VAC, 10 A
V9BLR1	2.0	7.2	IP67	M3 screw	NC	Roller lever	Silver	Up to 250 VAC, 10 A
V9BLR1VC2	2.0	7.2	IP67	Pre-wired	NC	Roller lever	Silver	Up to 250 VAC, 10 A

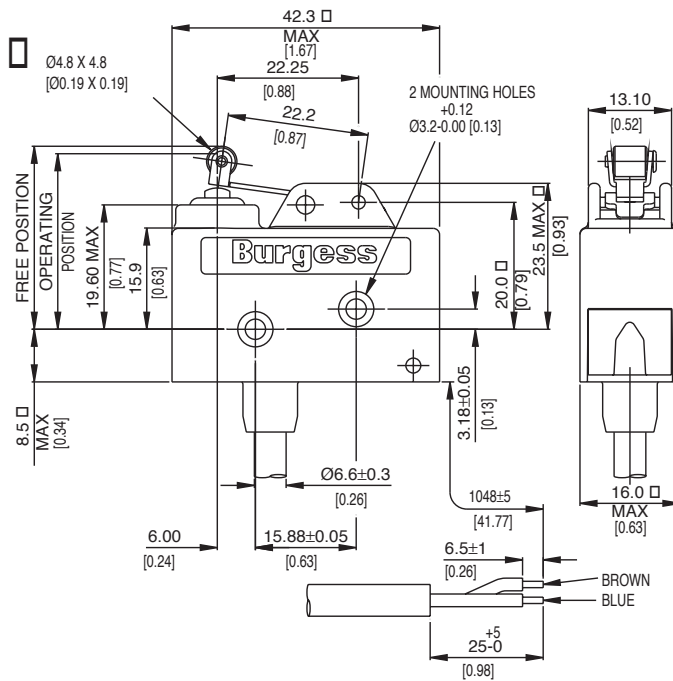
### Specifications

Housing	Zinc diecasting
Plunger	Acetal
Mechanism	>3mm gap, positive-action, single pole
Functions	Normally closed
Cowl	Silicon rubber
Contacts	Silver
Terminals °C	M3 screws with captive washers
Temperature range	-40°C to +125°C (switch only) -10°C to +85°C (pre-wired)
Mechanical life	10 <sup>6</sup> cycles minimum, impact-free actuation
Protection	IP67 (enclosure)
Mounting	Side mounting
Actuators	Roller levers - stainless steel, nylon roller

Circuit diagram



Dimensions


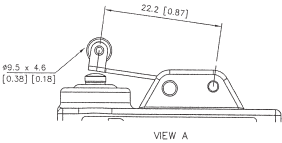
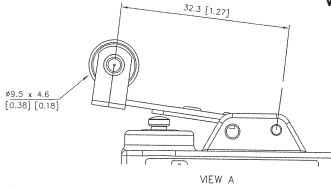


### Recommended maximum electrical ratings

Voltage (max)	Load (A)	Approval
250 VAC	10 (0.75 pf)	UL 1054/CSA 22.2 No. 55 - 6,000 operations
0 - 15 VDC	10	General rating - 50,000 operations
15 - 30 VDC	10	General rating - 50,000 operations

# V9B

## Operating Characteristics

Actuator	Reference	Actuating Force Maximum		Force at total travel		Free Position Maximum		Contact gap at total travel	
		(N)	(ozf)	(N)	(ozf)	(mm)	(in)	(mm)	(in)
Plunger 	V9B V9BVC2	2.5	9.0	3.7	13.3	22.6	0.89	3.0	0.118
LR Lever 	V9BLR V9BLRVC2	2.7	9.7	4.2	15.1	31.0	1.22	3.0	0.118
L Lever 	V9BLR1 V9BLR1VC2	2.0	7.2	3.0	10.8	39.0	1.54	3.0	0.118

Operating characteristics are specified from the mounting holes.

Total travel: Plunger can be depressed flush with housing. The housing should not be used as an end stop.

## Ordering Reference

Type V9B

Actuators	No digit	Plain plunger
	LR	Roller lever 22.2 mm (0.87 in)
	LR1	Roller lever 32.3 mm (1.26 in)
Wiring	No digit	M3 screws with captive washers
	VC2	Pre-wired with vertical cable
	HC2	Pre-wired with horizontal cable