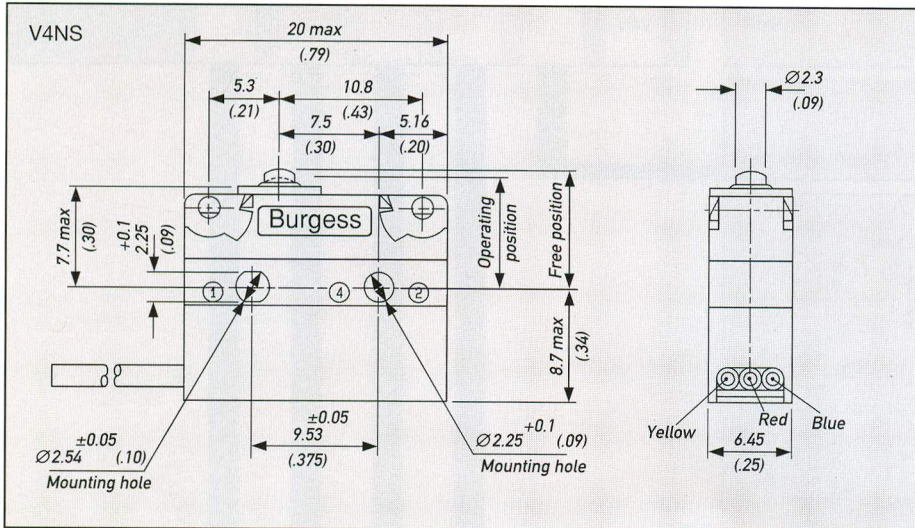
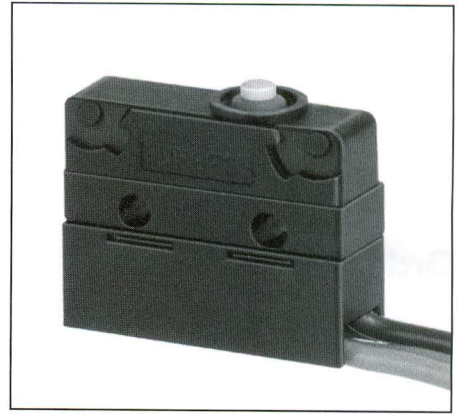
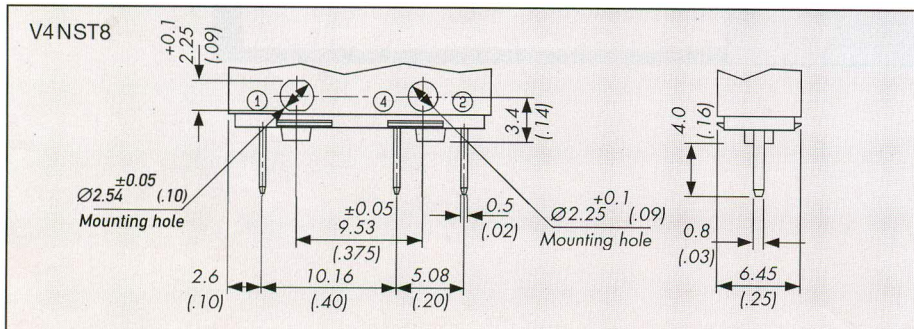
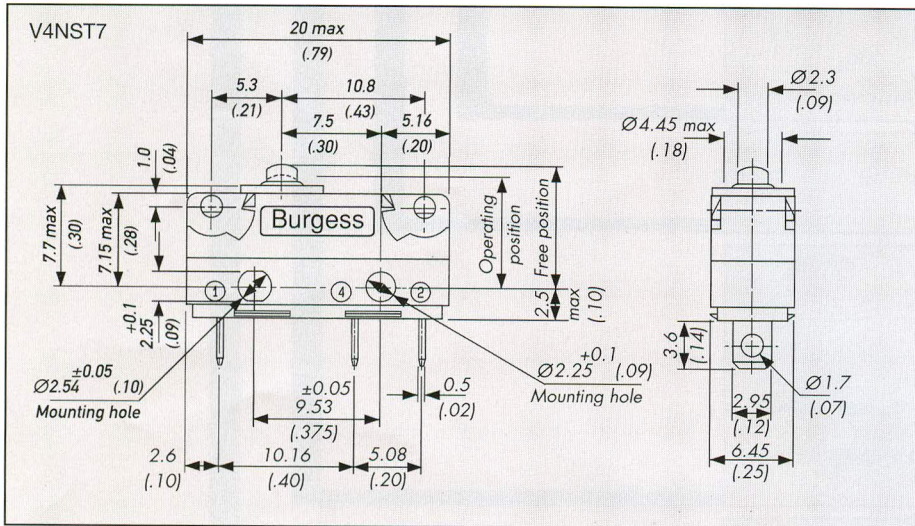


V4NS-Series



An exciting new range of sealed sub-miniature switches embracing all the features of the V4N series and in addition

- All models sealed to IP67
- Pre-wired versions
- High and low temperature versions
- Potted base
- Cables emerging from either end
- Neoprene or silicone cowls
- Single, double or triple pole snap-on terminal covers
- Compact terminal cover



Specifications

V4NS

Housing:

Glass fibre reinforced Polyamide (PA 6.6)

Plunger:

Polyamide (PA 6.6) or Polyacetal (POM)

Plunger Cowl:

Neoprene or silicone elastomer

Mechanism:

Snap action coil spring mechanism with stainless steel spring. Changeover, normally-closed or normally-open

Contacts:

Fine silver

Gold plate on silver

Gold alloy on silver palladium (crosspoint)

Terminals:

All terminals are gold flashed

Refer to page 35

Temperature Range:

-10°C to +85°C (-40°C with silicone cowl)

Higher temperatures possible consult Burgess

Mechanical Life:

10⁷ cycles minimum (impact-free actuation)

Type of Protection:

IP67 with encapsulated terminals

Mounting:

Side mounting.

Versions with moulded mounting pegs of 2.25 mm or 3.2 mm diameter are also available. Please consult Burgess.

Actuators:

Plain lever

Cam follower

Roller lever

} Choice of two styles

Accessories:

Lug mounting frame

Clip-on terminal covers

Insulating sheet

Approvals:

UL, CSA, VDE, SEV, NEMKO, DEMKO,

SEMKO.

Recom. Max. El. Ratings V4NST6-T11		
Voltage	Resistive load	Inductive load
VAC	A	A
125	5	5
250	5	5

Recom. Max. El. Ratings V4NST6-T11		
Voltage	Resistive load	Inductive load
VDC	A	A
up to		
30	5	3
50	1	1
75	0.75	0.75
125	0.5	0.03
250	0.25	0.03

Recom. Max. El. Ratings V4NS (pre-wired)		
Voltage	Resistive load	Inductive load
VAC	A	A
125	3	3
250	3	3

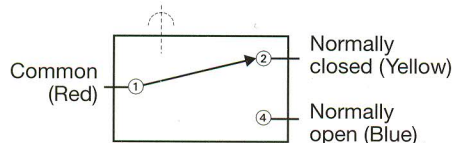
Recom. Max. El. Ratings V4NS (pre-wired)		
Voltage	Resistive load	Inductive load
VDC	A	A
up to		
30	3	3
50	1	1
75	0.75	0.75
125	0.5	0.03
250	0.25	0.03

Gold-plated contacts are intended for use in signal circuits where the energy being switched is at the milliwatt level. Power being switched must be limited in order to avoid overheating and possible dispersal of the gold from the contact area.

The breaking capacities quoted refer to the switch. The loading of the leads depends on heat dissipation and has to be checked by testing.

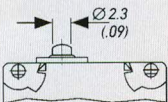
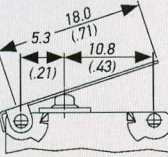
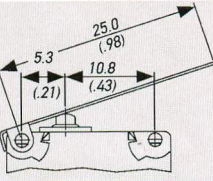
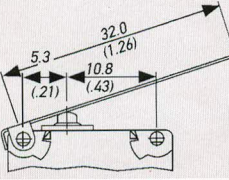
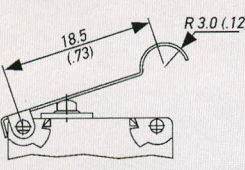
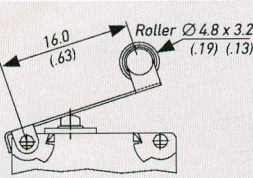
The breaking capacities in the table refer to silver contacts. For gold contacts see the text above right.

Circuit diagram V4NS



Product Range Operating Characteristics

V4NS

Actuator	Reference	Actuating Force Maximum N (ozf)	Release Force Minimum N (ozf)	Free Position Maximum mm (in)	Operating Position mm (in)	Movement Differential Maximum mm (in)	Over Travel
Plunger 	V4NS	2.5 (9)	0.3 (1.0)	9.2 (0.36)	8.4 (0.33) ± 0.3 (± 0.01)	0.1 (0.004)	Flush with case. The case should not be used as an end stop.
Y1 Lever  Width of lever: 4.0 mm (.16)	V4NSY1	0.9 (3.2)	0.07 (0.25)	13.2 (0.52)	10.6 (0.42) ± 1.2 (± 0.05)	0.4 (0.016)	
Y2 Lever  Width of lever: 4.0 mm (.16)	V4NSY2	0.64 (2.3)	0.06 (0.2)	15.7 (0.62)	11.3 (0.44) ± 1.7 (± 0.07)	0.6 (0.02)	
Y3 Lever  Width of lever: 4.0 mm (.16)	V4NSY3	0.5 (1.8)	0.04 (0.14)	17.9 (0.70)	11.9 (0.47) ± 2.3 (± 0.09)	0.8 (0.03)	
YC Lever  Width of lever: 4.0 mm (.16)	V4NSYC	0.9 (3.2)	0.07 (0.25)	16.1 (0.63)	13.3 (0.52) ± 1.2 (± 0.05)	0.4 (0.016)	
YR1 Lever  Width of lever: 4.0 mm (.16)	V4NSYR1	0.9 (3.2)	0.07 (0.25)	17.8 (0.70)	15.6 (0.61) ± 1.2 (± 0.05)	0.4 (0.016)	

Operating Characteristics shown above are specified from mounting hole centres. To calculate the Operating Characteristics for T8 Series PCB switches from the terminals add one of the following:

1. T8 Add 3.4 to establish characteristics from stand off's on base.
2. T81/82 Add 3.8 to establish characteristics from centre line of formed terminals.
3. T83 Add 4.2 to establish characteristics from PCB

A further range of options is offered by «A» Series levers. At 0.4 mm thick they are more rigid than the «Y» Series. They are recommended in applications where switches are inverted.

Ordering References

V4NS

Switch range:	V4NS
Actuating Force No symbol = Standard force 2 Low force [4]* High force	[]* german version
Terminal types <p style="font-size: small;">All terminals 0.5 thick</p> <p style="font-size: x-small;">No Symbol = Supplied pre-wired with 0.5 m long PVC cable</p>	
Circuit No symbol = Changeover C2 Normally closed C4 Normally open	
Actuators No symbol = Plunger Y1 [A1]* Plain lever 18.0 mm (.71 in) Y2 [A2]* Plain lever 25.0 mm (.98 in) Y3 [A3]* Plain lever 32.0 mm (1.26 in) [A7]* Plain lever 60.0 mm (2.36 in) YC [AC1]* Cam follower 18.5 mm (.73 in) YR1 [AR1]* Roller lever 16.0 mm (.63 in) []* German version Levers fitted at end nearest to plunger. These can also be specified for fixing at end opposite to plunger – consult Burgess.	
Contacts No symbol = Fine silver AUX Gold alloy on silver palladium crosspoint GP Gold plate on silver	