

Snap Action Switches V3 and V4



- ▶ Snap action micro switches
- ▶ Industry standard V3 and V4
- ▶ Ratings up to 16A, 250Vac (V3) and 5A, 250Vac (V4)
- ▶ Changeover, NO or NC function
- ▶ Choice of terminals and actuators
- ▶ Further options include gold plated contacts, lever types and terminal options

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V3 Snap-action Switches *Up to 16(4)A 250Vac*



- ▶ Snap action switches
- ▶ Ratings up to 16A, 250Vac
- ▶ Industry standard V3
- ▶ Changeover, NO or NC function
- ▶ Choice of terminals and actuators
- ▶ Further options include gold plated contacts, lever types and terminal options



16(4)A 250Vac 50E3



16A 125/250Vac 3/4hp T85 50E3 UL file no. E45221
125V 1/2 HP, 250V 3/4 HP, 0.4A 125Vdc, 0.2A 250Vdc



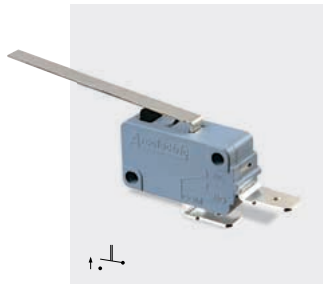
RoHS compliant by 3rd qtr 2005

μ contact gap.

C V3 1 1 A 01 35 AAA

TERMINAL SWITCH SERIES VARIANT FUNCTION LEVER POSITION LEVER SHAPE OPERATING FORCE OTHER FEATURES

▶ TERMINAL	▶ SWITCH SERIES	▶ VARIANT	▶ FUNCTION	▶ LEVER POSITION	
T Solder	V3	1 Standard T85	0 CO ON-(ON) (momentary 1 side)	A Standard ratio	
C 6.3 x 0.8			1 NO (ON) - OFF (momentary ON)		B High ratio
E 4.8 x 0.5		2 High Temperature T125	2 NC ON - (OFF) (momentary OFF)	N No lever	
H 4.8 x 0.8					
L RAST5 3 x 6.3 tabs on 5mm pitch					



CV311A0420



CV311N0005



TV311A0316



LV310N0010



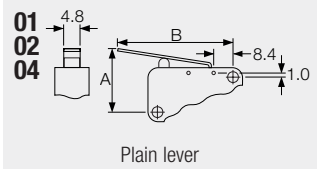
CV312A1335



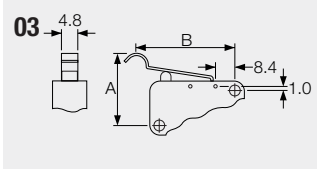
CV310N0010

LEVER SHAPE

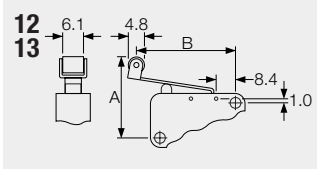
00 No lever



Plain lever



Snake lever



Roller lever

	01	02	03	04	12	13
Dim A	16.9	18.6	21.5	21.8	22.3	24.0
Dim B	24.2	35.7	32.7	59.2	21.5	34.0

Many alternative actuators are available.
Contact factory for details.

OP. FORCE

without lever

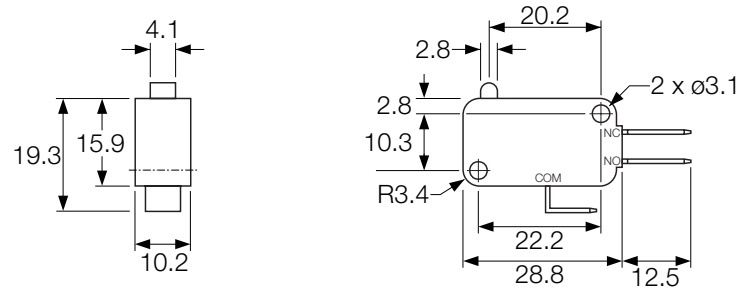
05
55gms

10
100gms

20
200gms

35
350gms

DIMENSIONS (mm) (3 terminals shown)



TECHNICAL DATA

Mechanical life	>1 million operations
Operating Temperature	-25°C to +85°C
Insulation resistance	>1000MΩ
Tracking resistance	175V
Contact gap	0.6 (min)

MECHANICAL DATA

High at rest point**	15.9
Trip point**	14.7 ±0.5
Pre-travel	1.2 (max)
Movement differential	0.4 (max)
Overtravel	1.25 (min)

**Measured from lower hole centre to top of plunger.

MATERIALS

Body, lid & Plunger	Thermoplastic UL94V-0
Terminals	Plated brass
Moving contact	Phosphor bronze silver plated
Spring	Beryllium copper
Contacts	Fine silver
Actuator/roller	Stainless steel

V4 Snap-action Switches *Up to 5A 250Vac*



- ▶ Snap action switches
- ▶ Ratings up to 5A, 250Vac
- ▶ Industry standard V4
- ▶ Changeover, NO or NC function
- ▶ Choice of terminals and actuators
- ▶ Further options include gold plated contacts, levers and terminals



5A 125Vac, 3A 250Vac 5E4



5A 125/250Vac UL file no. E45221



RoHS compliant by 3rd qtr 2005

μ contact gap.

P V4 1 0 N 01 23 AAA

TERMINAL SWITCH SERIES VARIANT FUNCTION LEVER POSITION LEVER SHAPE OPERATING FORCE OTHER FEATURES

▶ TERMINAL	▶ SWITCH SERIES	▶ VARIANT	▶ FUNCTION	▶ LEVER POSITION
<p>P</p> <p>6.0 7.6 1.65 2.8 x 0.5</p>	V4	<p>1 Standard T85</p>	<p>0</p> <p>CO ON-(ON) (momentary 1 side)</p>	<p>A Standard ratio</p>
<p>T</p> <p>3.2 3.4 Solder</p>				
<p>X</p> <p>1.2 4.0 PCB</p>				
<p>D</p> <p>4.8 8.4 RH PCB</p>				
<p>J</p> <p>4.8 8.4 LH PCB</p>				
Viewed from non plunger end (NC terminal end)		<p>2 High Temperature T125</p>		<p>N No lever</p>



PV410N9908



XV410A1023



JV410N0016



DV410A0323



XV410A0623



PV410N0016

LEVER SHAPE

00 No lever

01 03 Plain lever

06 Roller lever

10 Snake lever

99 Domed actuator

	01	03	06	10
Dim H	12.4	13.2	17.5	21.0
Dim L	18.5	24.8	16.5	39.4

Many alternative actuators are available
Contact factory for details

OP. FORCE

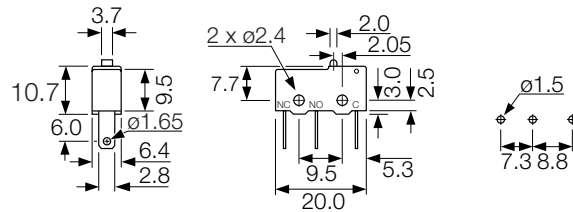
(without lever)

08
80gms

16
160gms

23
230gms

DIMENSIONS (mm)



TECHNICAL DATA

Mechanical life	>1 million operations
Temperature rating	T85°C
Insulation resistance	>1000MΩ
Tracking resistance	175V
Contact Gap	0.5

MECHANICAL DATA

High at rest point**	9.0
Trip point**	8.4 ±0.3
Pre-travel	0.6 (max)
Movement differential	0.2 (max)
Overtravel	0.5 (min)

**Measured from fixing hole centres to top of plunger

MATERIALS

Body, lid & Plunger	Thermoplastic UL94V-0
Plunger	Thermoplastic UL94V-0
Terminals	Plated brass
Moving contact arm	Phosphor bronze
Spring	Stainless steel
Contacts	Fine silver
Actuator/roller	Stainless steel



We have an extensive network of stockists, agents and distributors. Please contact us for further details.

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