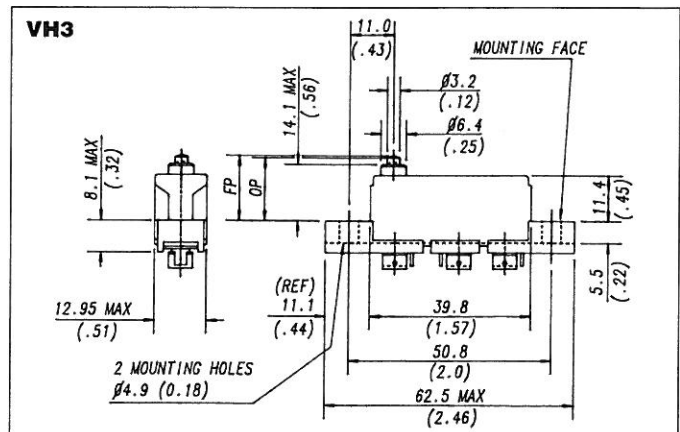
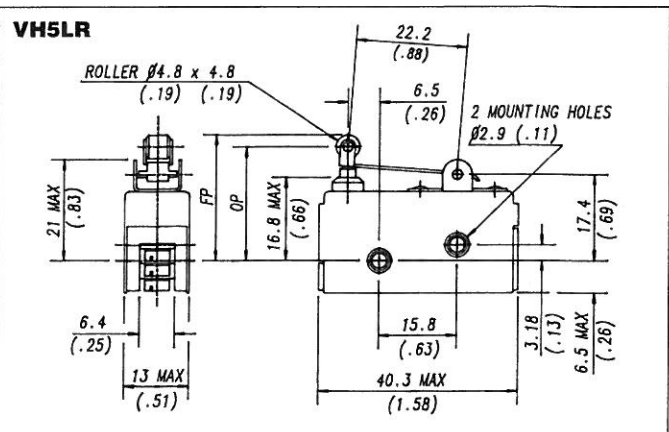
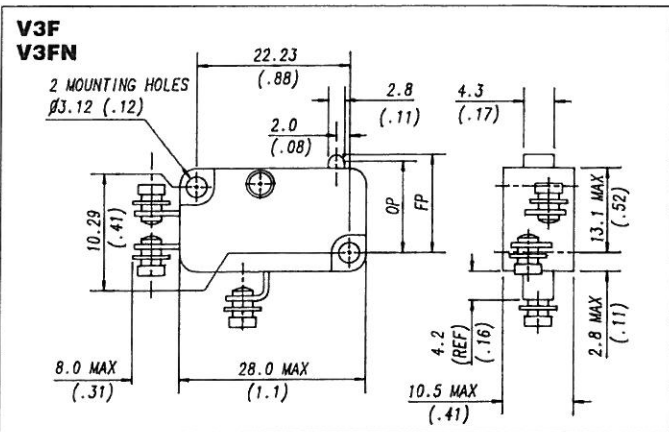
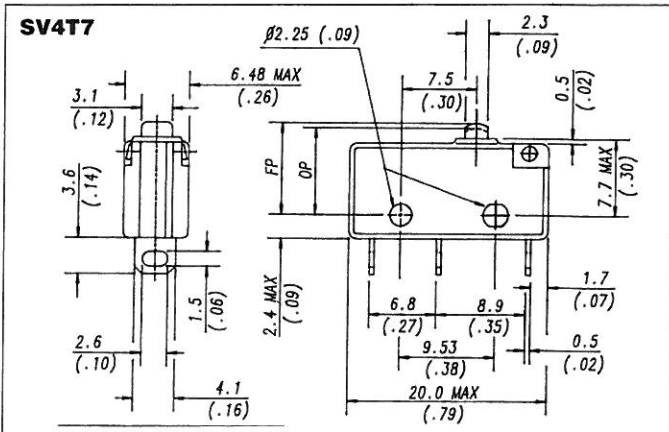
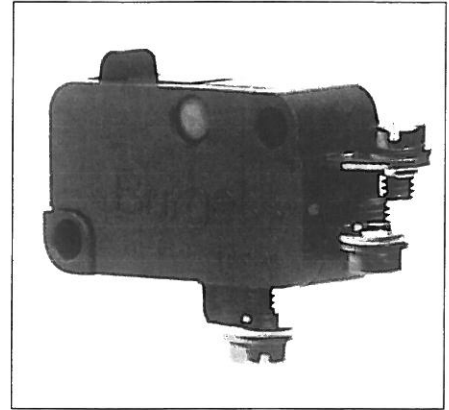


# High Temperature Miniature Micro Switches



Five small snap action micro switches suitable for use at elevated temperatures. The V3FN and VH3, which contain platinum contacts, may also be used in applications exposed to nuclear radiation.

Maximum continuous working temperatures are as follows:

SV4T7	150°C
V3F/V3FN	240°C
VH5LR	200°C
VH3	550°C

# SV4T7 V3F VH5LR VH3

## Specifications

### Housing:

SV4T7 – Diallylphthalate (DAP)  
 V3F } Polyphenylene sulphide (PPS)  
 V3FN }  
 VH3 } Stainless steel  
 VH5LR }

### Plunger:

SV4T7 – Glass reinforced polyamide (PA6.6)  
 V3F } Ceramic  
 V3FN }  
 VH3 }  
 VH5LR }

### Base moulding:

VH3 – Ceramic  
 VH5LR – Diallylphthalate (DAP)

### Mechanism:

Single-pole changeover

### Contacts:

SV4T7 }  
 V3F } Silver  
 VH5LR }  
 V3FN } Platinum  
 VH3 }

### Terminals:

SV4T7 – Solder tags  
 V3F } Screws with lockwashers  
 V3FN }  
 VH5LR }  
 VH3 – Stainless steel screws and spring washers

### Temperature range:

Maximum continuous working temperature  
 SV4T7 150°C  
 V3F } 240°C  
 V3FN }  
 VH3 550°C (600°C for short runs)  
 VH5LR 200°C

### Mechanical life:

SV4T7 }  
 V3F } 10<sup>7</sup> cycles minimum  
 V3FN }  
 VH3 }  
 VH5LR 10<sup>5</sup> cycles minimum  
 (all impact free actuation)

### SV4T7

Recommended Max. Electrical Ratings		
Voltage	Resistive load	Inductive load
<b>AC</b>	A	A
up to 250	5	5

Recommended Max. Electrical Ratings		
Voltage	Resistive load	Inductive load
<b>DC</b>	A	A
up to 30	5	3
50	1	1
75	0.75	0.25

### V3F/V3FN – VH3/VH5LR

Recommended Max. Electrical Ratings		
Voltage	Resistive load	Inductive load
<b>AC</b>	A	A
up to 250	1	1

Recommended Max. Electrical Ratings		
Voltage	Resistive load	Inductive load
<b>DC</b>	A	A
up to 30	1	1
50	1	1
75	1	1

### Type of protection:

IP40

### Mounting:

SV4T7 }  
 V3F } Side mounting to a  
 V3FN } flat surface  
 VH5LR }  
 VH3 – Lug mounting, use stainless steel screws and spring washers

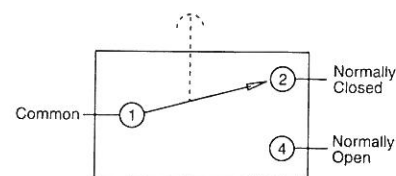
### Actuators:

VH5LR  
 Roller lever – Stainless steel

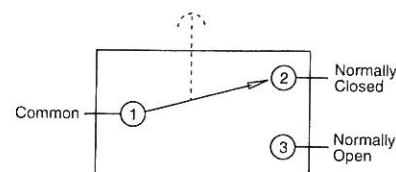
### Approvals:

SV4T7 CSA/UL @ 130°C

### Circuit diagram V3F/V3FN

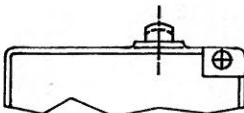
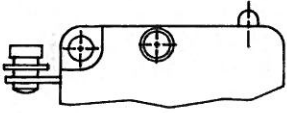
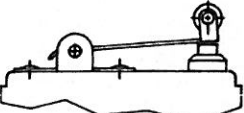



### Circuit diagram VH3/VH5LR and SV4T7



SV4T7  
V3F  
VH5LR  
VH3

**Product Range  
Operating Characteristics**

<b>Actuator</b> Operating characteristics are specified from mounting holes, except for VH3 switches which are measured from datum faces shown	<b>Reference</b>	<b>Actuating Force</b> Maximum N (ozf)	<b>Release Force</b> Minimum N (ozf)	<b>Free Position</b> Maximum mm (in)	<b>Operating Position</b> mm (in)	<b>Movement Differential</b> Maximum mm (in)	<b>Over Travel</b>
Plunger 	<b>SV4T7</b>	1.4 (5)	0.28 (1)	9.2 (.36)	8.4 (.33) ± 0.4 (.016)	0.10 (.004)	
Plunger 	<b>V3F  V3FN</b>	3.3 (12)	1.1 (4)	15.6 (.6)	14.7 (.58) ± 0.5 (.02)	0.4 (.016)	Depress to case
LR Lever 	<b>VH5LR</b>	4.5 (16)	1.1 (4)	25.4 (1)	23.6 (.93) ± 0.4 (.016)	0.4 (.016)	0.4 (.016)
Plunger 	<b>VH3</b>	4.5 (16)	0.8 (3)	16.3 (.64)	14.7 (.58) ± 0.3 (.012)	0.4 (.016)	Depress to case