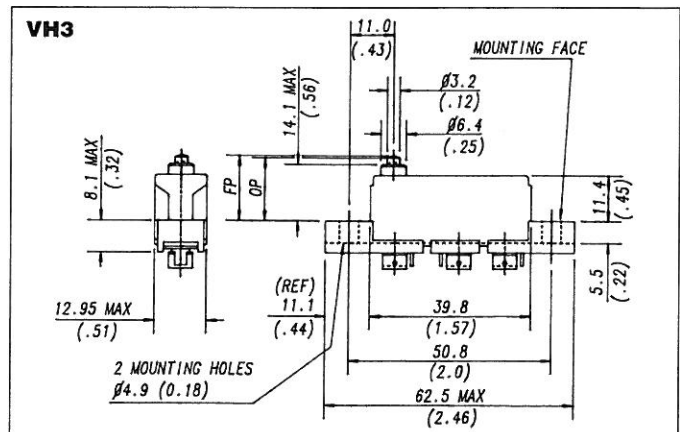
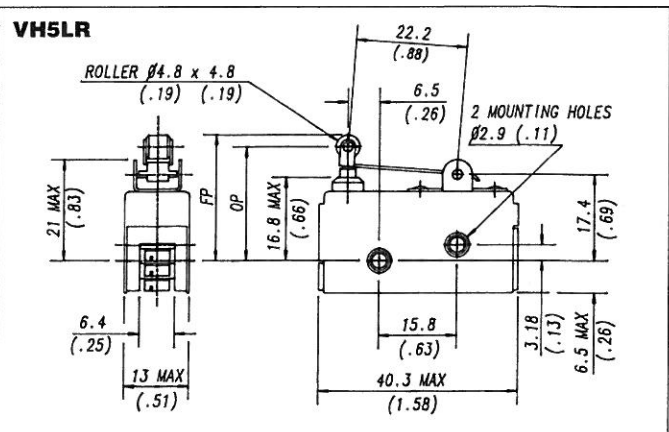
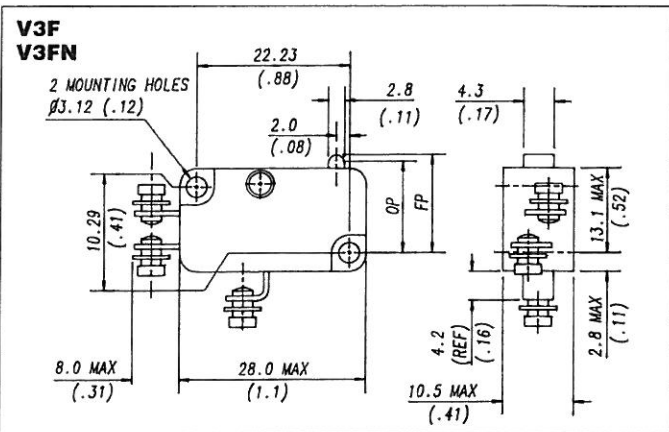
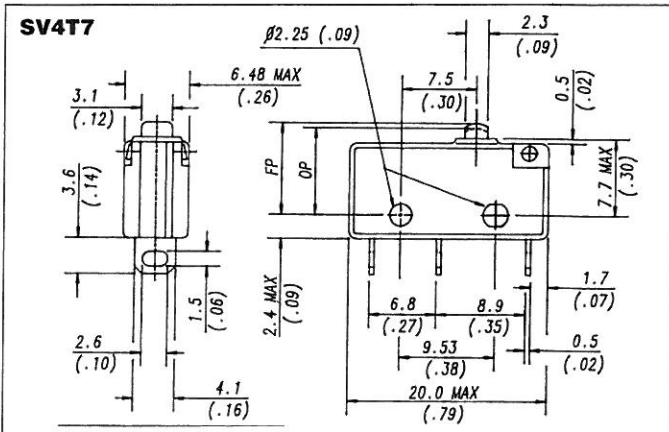
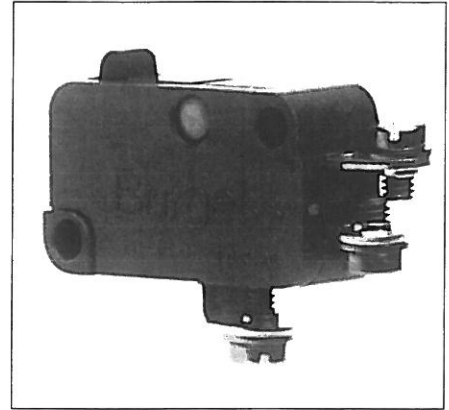


High Temperature Miniature Micro Switches



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 } 10⁷ cycles minimum
 V3FN }
 VH3 }
 VH5LR 10⁵ cycles minimum
 (all impact free actuation)

SV4T7

Recommended Max. Electrical Ratings		
Voltage	Resistive load	Inductive load
AC	A	A
up to 250	5	5

Recommended Max. Electrical Ratings		
Voltage	Resistive load	Inductive load
DC	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
AC	A	A
up to 250	1	1

Recommended Max. Electrical Ratings		
Voltage	Resistive load	Inductive load
DC	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

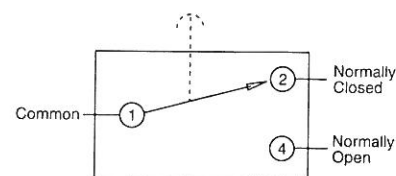
Actuators:

VH5LR
 Roller lever – Stainless steel

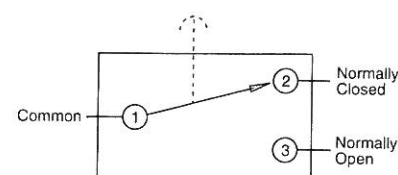
Approvals:

SV4T7 CSA/UL @ 130°C

Circuit diagram V3F/V3FN

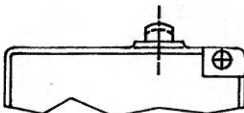
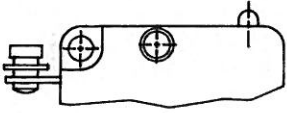
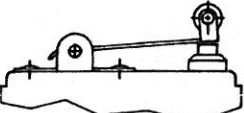



Circuit diagram VH3/VH5LR and SV4T7



SV4T7
V3F
VH5LR
VH3

**Product Range
Operating Characteristics**

Actuator Operating characteristics are specified from mounting holes, except for VH3 switches which are measured from datum faces shown	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 	SV4T7	1.4 (5)	0.28 (1)	9.2 (.36)	8.4 (.33) ± 0.4 (.016)	0.10 (.004)	
Plunger 	V3F V3FN	3.3 (12)	1.1 (4)	15.6 (.6)	14.7 (.58) ± 0.5 (.02)	0.4 (.016)	Depress to case
LR Lever 	VH5LR	4.5 (16)	1.1 (4)	25.4 (1)	23.6 (.93) ± 0.4 (.016)	0.4 (.016)	0.4 (.016)
Plunger 	VH3	4.5 (16)	0.8 (3)	16.3 (.64)	14.7 (.58) ± 0.3 (.012)	0.4 (.016)	Depress to case