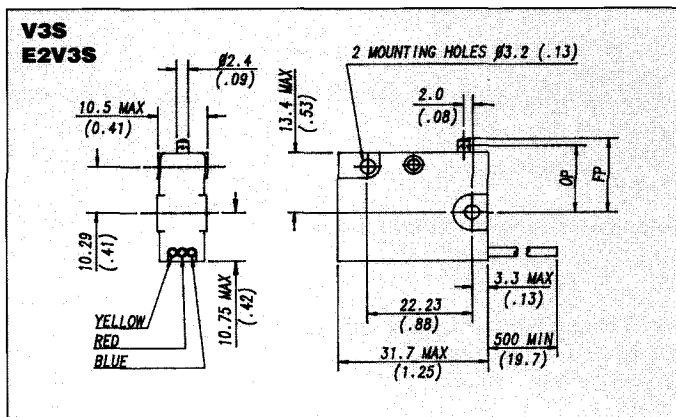


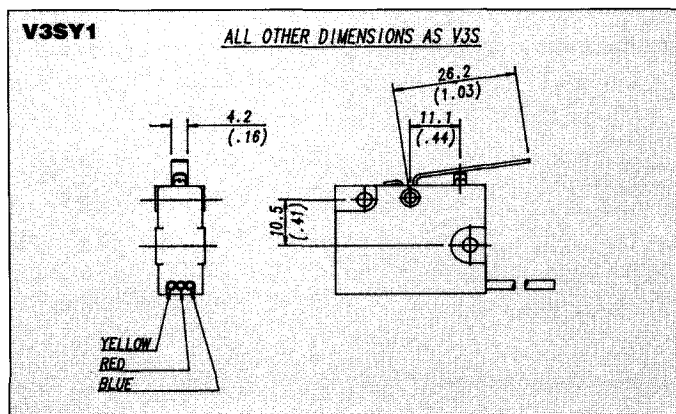
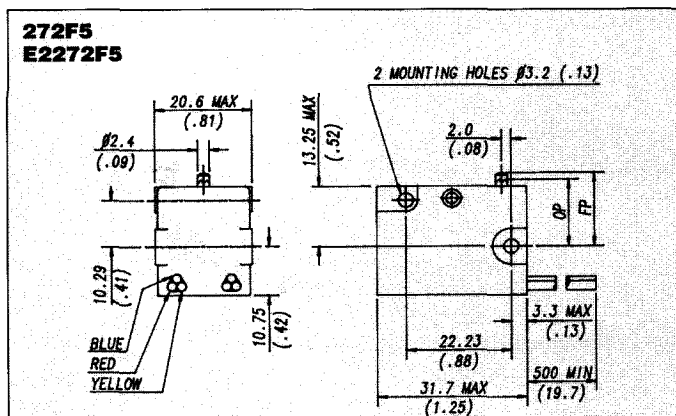
## Single and Multi-Pole Sealed Miniature Micro Switches V3S and E2V3S Series 272F5 and E2272F5 Series



A range of single and double pole sealed miniature switches. The mechanisms are totally enclosed to IEC Code IP67 (NEMA type 6).

Switches are supplied complete with 0.5m (19.7in) flying leads. A variety of integral actuators are available. The V3S/1670 is suitable for use in low temperature applications.

BASEEFA approved versions are identified by the prefix E2. These are suitable for use in Zone 2 hazardous areas (non-mining) as units with type of protection N (E2V3S) and d and N (E2272F5). They are also suitable for use in all gases in Group II and their temperature classification is T6.



## Specifications

### Housing:

Glass fibre reinforced polyamide (PA6.6)

### Plunger:

V3S Series

Plain plunger versions – Stainless steel

Lever versions – Polyacetal (POM)

272F5 Series

Stainless steel

### Mechanism:

V3S Series

Single pole changeover

272F5 Series

Double pole changeover

(Poles electrically isolated)

### Contacts:

Fine silver

### Cables:

PVC 0.5m (19.7in) long

(V3S/1670 silicone rubber) 0.65m (25.6in) long

### Cowl:

Synthetic rubber

(V3S/1670 silicone rubber)

### Temperature range:

–10°C to +85°C

E2 series

–10°C to +40°C

V3S/1670

–40°C to +85°C

### Mechanical life:

Plunger types 10<sup>7</sup> cycles minimum

Lever types 10<sup>6</sup> cycles minimum

(Impact free actuation)

### Type of protection:

IP67 (NEMA type 6)

### Mounting:

Side mounting to a flat surface

### Actuators:

Levers – Stainless steel

Rollers – Polyamide (PA6.6)

### Approvals:

BASEEFA

### V3S/E2V3S

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

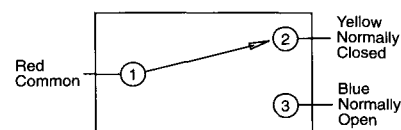
Recommended Max. Electrical Ratings		
Voltage	Resistive load	Inductive load
<b>DC</b>	A	A
up to 30	5	3
50	1	1
75	0.75	0.25

### 272F5/E2272F5

Recommended Max. Electrical Ratings		
Voltage	Resistive load	Inductive load
<b>AC</b>	A	A
up to 250	2	1

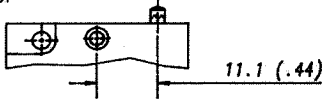
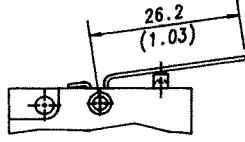
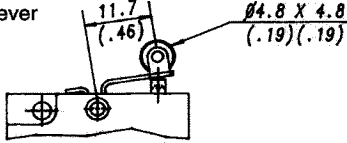
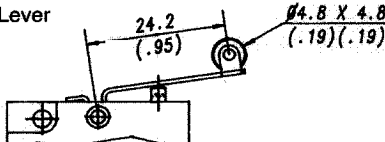
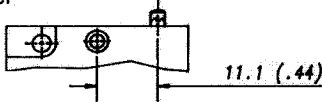
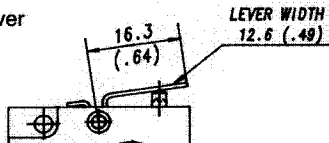
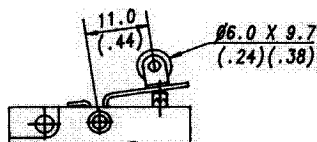
Recommended Max. Electrical Ratings		
Voltage	Resistive load	Inductive load
<b>DC</b>	A	A
up to 30	2	2
50	0.5	0.5
75	0.25	0.25

### Circuit diagram



V3S  
 272F5  
 E2V3S  
 E2272F5

## Product Range Operating Characteristics

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
Operating characteristics are specified from mounting holes							
Plunger 	<b>V3S</b> <b>V3S/1670</b> <b>E2V3S</b>	3.9 (14)	1.1 (4)	15.9 (.63)	14.5 (.57) ± 0.5 (.02)	0.4 (.016)	Depress to case
Y1 Lever 	<b>V3SY1</b>	1.65 (7.5)	0.42 (1.5)	18.1 (.71)	14.9 (.55) ± 0.1 (.04)	1.0 (.04)	
RY Lever 	<b>V3SYR</b>	3.9 (14)	1.1 (4)	22.1 (.87)	20.4 (.8) ± 0.64 (.025)	0.4 (.016)	
YR1 Lever 	<b>V3SYR1</b>	2.3 (8.26)	0.4 (1.44)	24.8 (.98)	22.0 (.86) ± 1.2 (.047)	1.0 (.04)	
Plunger 	<b>272F5</b> <b>E2272F5</b>	4.0 (14.5)	1.0 (3.5)	15.5 (.61)	14.0 (.55) ± 0.4 (.016)	0.3 (.012) per switch	
Y1 Lever 	<b>272F5Y1</b> <b>E2272F5Y1</b>	4.0 (14.5)	1.0 (3.5)	16.5 (.65)	14.7 (.58) ± 0.45 (.018)	0.3 (.012) per switch	
YR1 	<b>272F5YR1</b> <b>E2272F5YR1</b>	4.0 (14.5)	1.0 (3.5)	23.8 (.94)	22.1 (.87) ± 0.6 (.024)	0.3 (.012) per switch	

V3S  
 272F5  
 E2V3S  
 E2272F5

## Ordering References

