

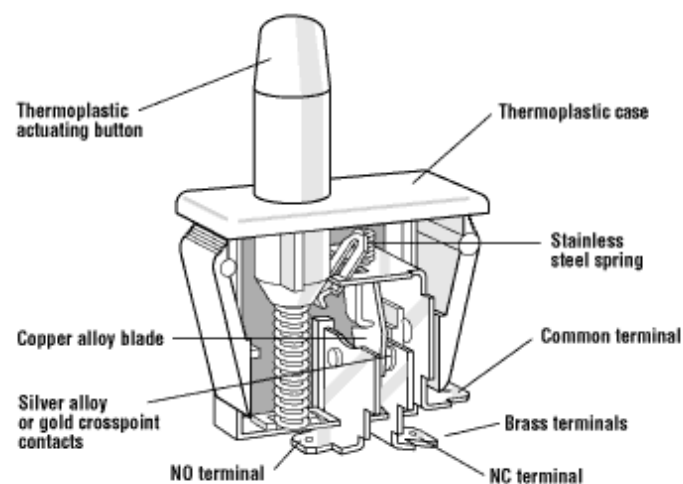
# E Series

## Single-Pole Panel Mount Pushbutton Switches



### Features

- Choice of Momentary, Push-Pull (reset) and Cheat Interlock switches
- Snap-in panel mounting
- Long-life coil spring, snap-action mechanism
- Agency approved extended-life versions available
- VDE approval available on select models (F Series)
- Various terminal forms available (consult factory)



### E Series



Switch Series	EN61058 Rating	UL1054 Rating	Electrical Life at Rated Load	
			According to VDE (Min. Operations)	According to UL (Min. Operations)
<b>E65</b>	N/A	16A, 125/250VAC; 1/3HP, 125/250VAC	N/A	6,000
<b>E68</b>	0.1(0.05)A, 125VAC	0.1A, 125VAC	N/A	6,000*
<b>E69</b>	10(4)A, 250VAC	10A, 125/250VAC; 1/3HP, 125/250VAC	N/A	6,000*
<b>F68</b>	0.1(0.05)A, 125VAC	0.1A, 125VAC	50,000	6,000*
<b>F69</b>	10(4)A, 250VAC	10A, 125/250VAC; 1/3HP, 125/250VAC	50,000	6,000*
*Indicates 100K life available.				

## Specifications

### Electrical

Temperature Rating: -40° to +85°C

Flammability Rating: UL94V-O

### Materials

Case: Thermoplastic Polyester (Valox used on International versions)

Actuating Button: Thermoplastic Acetal (Valox used on International versions)

Terminals: Brass\*

Moving Blade: Beryllium Copper

Spring: Stainless Steel

Contacts: Silver Alloy (E65, E69, F69)  
Gold Crosspoint (E68, F68)

\*Common terminals are plated — the remaining two terminals are not plated.

## Approvals

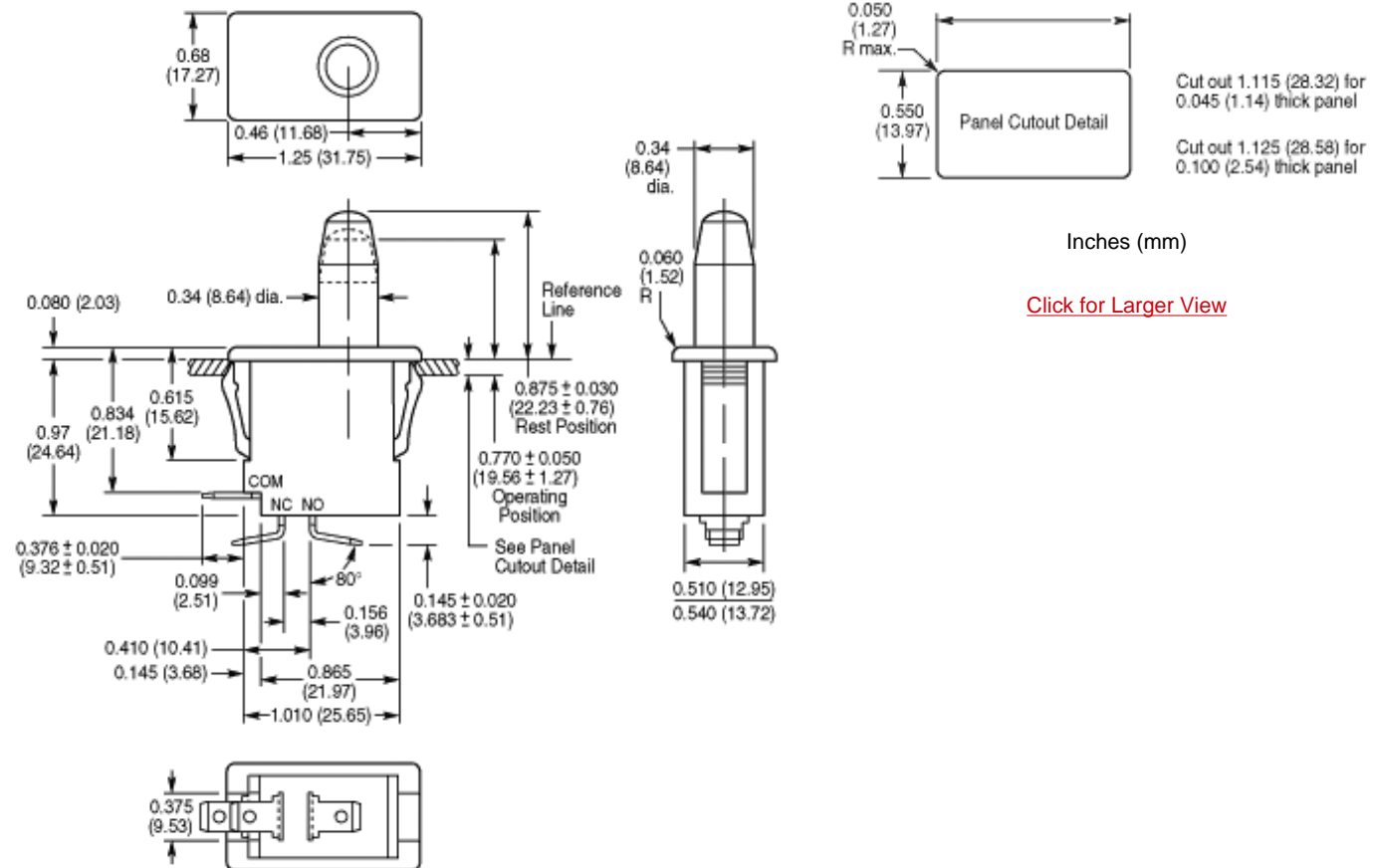


## International Versions

Switch prefix for VDE approved switches must be "F".  
Example: E68-30A becomes F68-30A.

Standard terminals for VDE applications are  
0.187" x 0.032" (4.75mm x 0.81mm).

## Dimensions



Inches (mm)

[Click for Larger View](#)

Inches (mm)

## Terminals

Standard terminals for this switch series are:  
 0.187" x 0.020" (4.75mm x 0.51mm) for up to 10 amps, and  
 0.250" x 0.032" (6.35mm x 0.81mm) for 16 amps.

Standard terminals for VDE applications are  
 0.187" x 0.032" (4.75mm x 0.81mm).

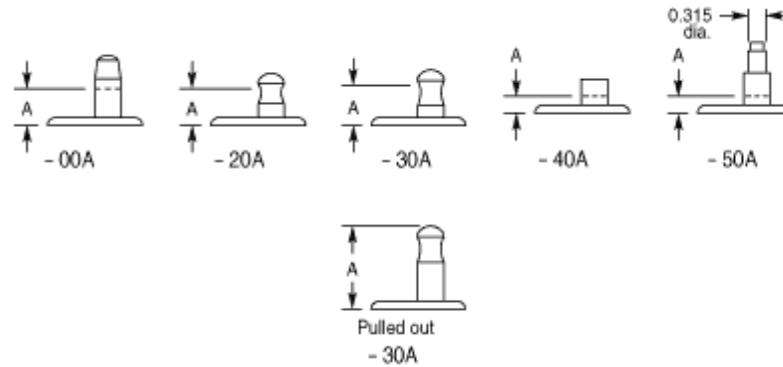
Consult factory for non-standard terminal options.

## Actuator Detail

## Auxiliary Button






"A" dimension = full overtravel position (see table below)

–50A has actuator with special shaft to accept auxiliary push buttons for manual actuation.



Consult factory for auxiliary buttons.

### Actuator Specifications

Actuator Code	Switch Type	Action	Rest Position inches (mm)	Max. Pre-Travel inches (mm)	Operating Point* inches (mm)	Min. Over-Travel inches (mm)	Max. Movement Differential inches (mm)	Maximum Operating Force** (g)	Max. Full Over-Travel Position inches (mm)
–00A		Basic Momentary Action	0.845–0.905 (21.46–22.99)	0.125 (3.18)	0.720–0.820 (18.29–20.83)	0.375 (9.53)	0.045 (1.14)	425	0.400 (10.16)
–20A		Push-Pull (Reset)	0.920–0.980 (22.37–24.89)	0.150 (3.81)	0.800–0.900 (20.32–22.86)	0.300 (7.62)	0.045 (1.14)	285	0.500 (12.70)
–30A†		Momentary	0.730–0.790 (18.54–20.07)	0.125 (3.18)	0.610–0.710 (15.49–18.03)	0.100 (2.54)	0.045 (1.14)	425	0.520 (13.21)
		“Cheat Interlock” (Pull out to lock)	0.730–0.790 (18.54–20.07)	0.125 (3.18)	0.800–0.900 (20.32–22.86)	0.050 (1.27)	0.060 (1.52)	385	0.980 (24.89)
–40A		Short Button Momentary	0.420–0.480 (10.67–12.19)	0.125 (3.18)	0.300–0.400 (7.62–10.16)	0.175 (4.45)	0.045 (1.14)	425	0.125 (3.18)
–50A		For Auxiliary Push Button	0.420–0.480 (10.67–12.19)	0.125 (3.18)	0.300–0.400 (7.62–10.16)	0.175 (4.45)	0.045 (1.14)	425	0.125 (3.18)

\*Measured above reference line. Refer to dimensional drawing above.

\*\*Operating Forces listed above are for E68/E69 switches only. E65 Operating Force: 708 grams max. for momentary switches.

†Dual function switch: Push in to operate in normal momentary mode and pull out for maintained action.

### Circuitry

Double throw (SPDT) and single throw normally opened or normally closed (SPST NO and SPST NC) versions are available.

To order SPDT, use "0" before the final "A" in part number.  
For SPST NO, use "1"; for SPST NC use "2".

**Example:**

E68-30A = SPDT

E68-31A = SPST NO

E68-32A = SPST NC

### Ordering Information

Select the current rating you need.

Combine the corresponding Series/Prefix number with the appropriate suffix number for the actuator type and circuitry you require.

(Switch prefix for VDE approved switches must be "F")

**Example:**

E65-00A = 16A, with basic momentary action actuator, SPDT

E68-21A = 0.1A, with push-pull (reset) actuator, SPST NO

F69-32A = 10A, VDE approved/International version, with dual action actuator, SPST NC

Specifications subject to change without notice.