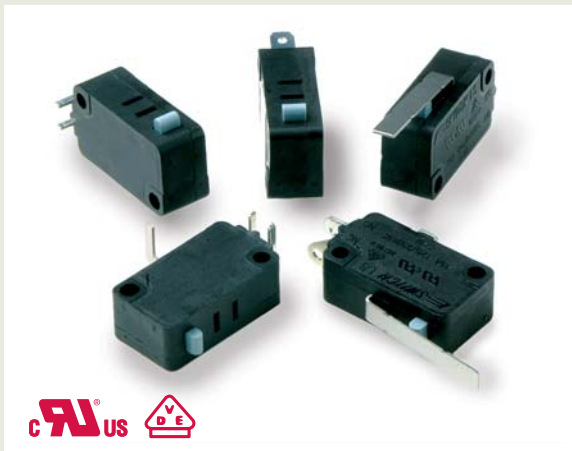


# SERIES LS SWITCHES

## SNAP ACTION SWITCHES



E-SWITCH®



### FEATURES & BENEFITS

- ▶ Available in gold & 15amp versions
- ▶ Wide variety of actuator, operating force & termination options

### APPLICATIONS/MARKETS

- ▶ Appliance
- ▶ Timing controls
- ▶ Vending machines
- ▶ Gaming
- ▶ Industrial controls
- ▶ Power tools

### SPECIFICATIONS

|                        |                                                                           |
|------------------------|---------------------------------------------------------------------------|
| Contact Rating:        | Gold .4VA max. @ 20 VDC or VAC Max.<br>15 Amps @ 125/250 VAC-UL, CUL, VDE |
| Life Expectancy:       | 50,000 cycles minimum                                                     |
| Mechanical Life:       | 1,000,000 cycles typical                                                  |
| Insulation Resistance: | 100 MΩ min.                                                               |
| Dielectric Strength:   | 1,500 VAC for 60 seconds                                                  |
| Operating Temperature: | -25° C to 85° C (std)                                                     |
| Operating Force:       | See Chart                                                                 |

### MATERIALS

|                  |                                |
|------------------|--------------------------------|
| Switch Housing:  | High Temperature PBT (UL94 V0) |
| Actuator Button: | High Temperature PBT (UL94 V0) |
| Contacts:        | Silver (std) or Gold           |
| Terminals:       | Copper Alloy                   |



### HOW TO ORDER

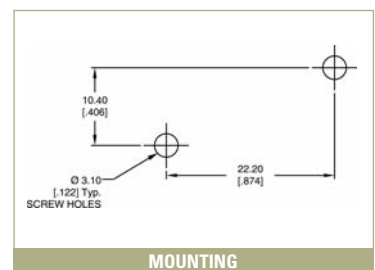
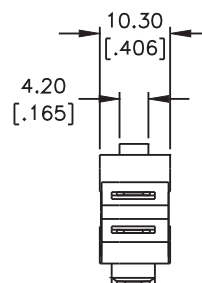
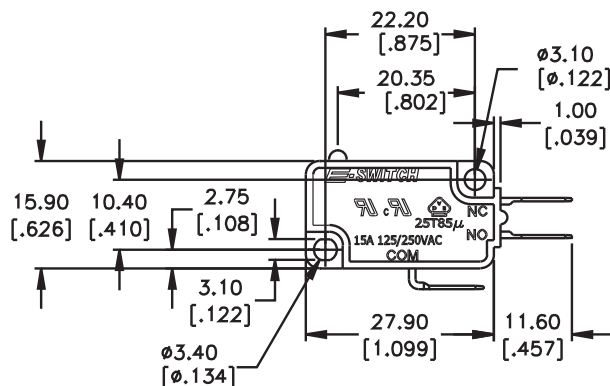
| SERIES | OPERATING TEMP. | CURRENT RATING        | ACTUATOR  | OPERATING FORCE | TERMINATION                                                                                                                      | CIRCUIT                                |
|--------|-----------------|-----------------------|-----------|-----------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| LS     | 085 = 85C       | R1 = Gold<br>15 = 15A | See Chart | See Chart       | S1 = Solder Lug<br>C1 = 0.187" Quick Connect<br>C2 = 0.250" Quick Connect<br>V1 = Right Angle PCB Pin<br>V2 = Left Angle PCB Pin | A = SPDT<br>B = SPST NC<br>C = SPST NO |



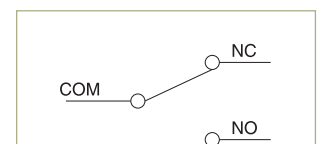
### Example Ordering Number

LS-085-15-03-F040-C2-A

Specifications subject to change without notice.



MOUNTING



SCHEMATIC

TACT  
SWITCHES

NAVIGATION  
SWITCHES

PUSHBUTTON  
SWITCHES

TOGGLE  
SWITCHES

ROCKER  
SWITCHES

SLIDE  
SWITCHES

SNAP-ACTION  
SWITCHES

DIP  
SWITCHES

KEYLOCK  
SWITCHES

ROTARY  
SWITCHES

DETECTOR  
SWITCHES

CAP  
OPTIONS



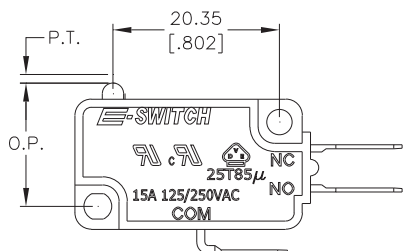
# SERIES LS SWITCHES

## SNAP ACTION SWITCHES

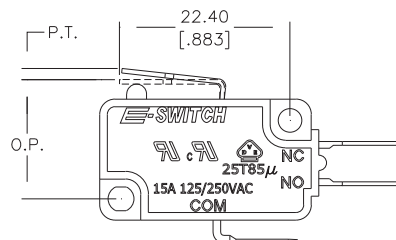
TACT  
SWITCHESNAVIGATION  
SWITCHESPUSHBUTTON  
SWITCHESTOGGLE  
SWITCHESROCKER  
SWITCHESSLIDE  
SWITCHESSNAP-ACTION  
SWITCHESDIP  
SWITCHESKEYLOCK  
SWITCHESROTARY  
SWITCHESDETECTOR  
SWITCHESCAP  
OPTIONS

### ACTUATOR OPTIONS

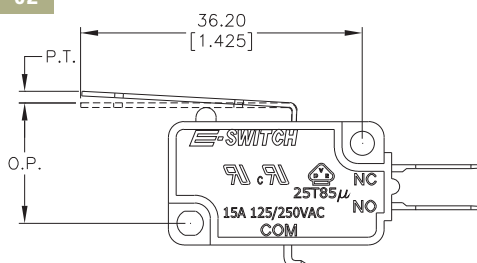
00



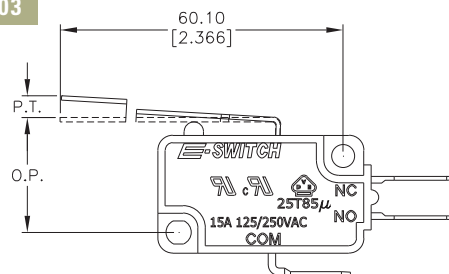
01



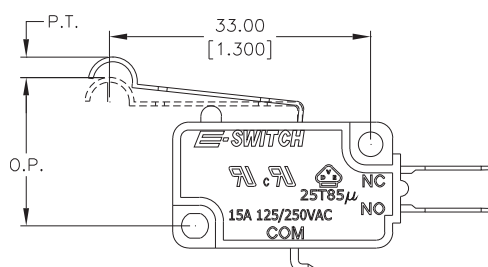
02



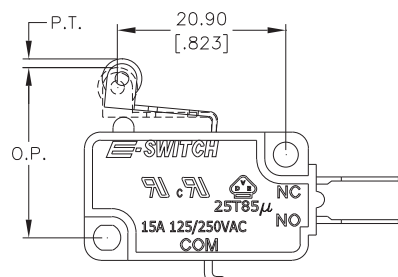
03



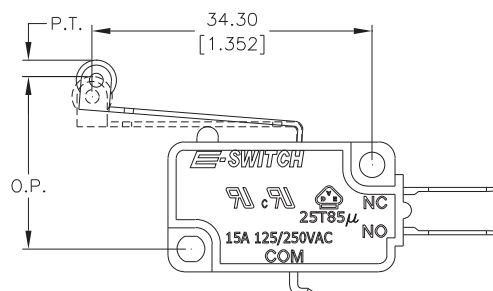
04



05



06



### ACTUATOR AND OPERATING FORCE CHART

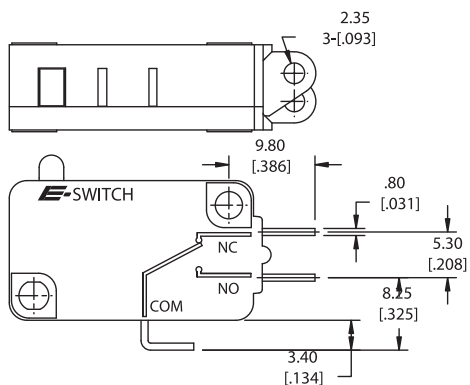
| Actuator | Actuation/Return Force |          |          | Pre-Travel | Operating Position |
|----------|------------------------|----------|----------|------------|--------------------|
| 00       | 100+/-30               | 160+/-40 | 250+/-50 | 2.0 max    | 14.7+/-0.5         |
| 01       | 100+/-30               | 160+/-40 | 250+/-50 | 2.0 max    | 15.3+/-0.5         |
| 02       | 45+/-20                | 75+/-25  | 120+/-40 | 4.1 max    | 15.5+/-0.8         |
| 03       | 25+/-10                | 40+/-15  | 60+/-25  | 8.5 max    | 15.3+/-2.0         |
| 04       | 50+/-20                | 85+/-30  | 140+/-40 | 5.2 max    | 19.0+/-1.5         |
| 05       | 100+/-30               | 160+/-40 | 250+/-50 | 2.7 max    | 20.7+/-0.8         |
| 06       | 45+/-15                | 75+/-25  | 120+/-40 | 5.5 max    | 20.7+/-1.5         |

PT= Pretravel OP= Operating Point OT= Over Travel

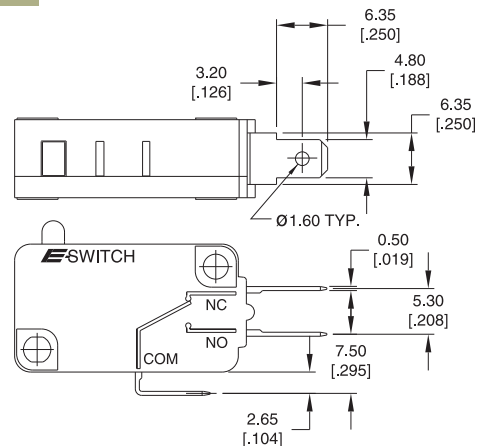


## TERMINATION OPTIONS

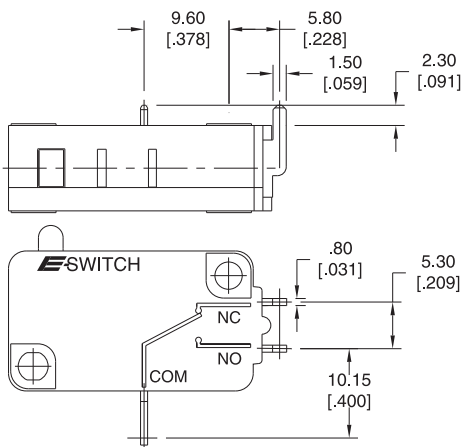
## S1 SOLDER LUG



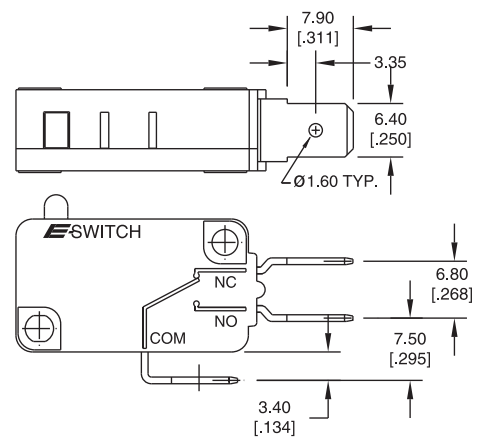
## C1 0.187" QUICK CONNECT



## V1 RIGHT ANGLE PCB PIN



## C2 0.250" QUICK CONNECT

TACT  
SWITCHESNAVIGATION  
SWITCHESPUSHBUTTON  
SWITCHESTOGGLE  
SWITCHESROCKER  
SWITCHESSLIDE  
SWITCHESSNAP-ACTION  
SWITCHESDIP  
SWITCHESKEYLOCK  
SWITCHESROTARY  
SWITCHESDETECTOR  
SWITCHESCAP  
OPTIONS

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## E-Switch:

|                                         |                                         |                                         |                                         |                                         |
|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| <a href="#"><u>LS0851505F160V1A</u></a> | <a href="#"><u>LS0851500F160C2A</u></a> | <a href="#"><u>LS0851500F100C2A</u></a> | <a href="#"><u>LS0851505F250C1A</u></a> | <a href="#"><u>LS0851500F160C1A</u></a> |
| <a href="#"><u>LS0851500F100S1A</u></a> | <a href="#"><u>LS0851504F140C1A</u></a> | <a href="#"><u>LS0851503F040C1C</u></a> | <a href="#"><u>LS0851500F100C1A</u></a> | <a href="#"><u>LS0851504F085C1A</u></a> |
| <a href="#"><u>LS0851502F045S1A</u></a> | <a href="#"><u>LS0851503F040C1A</u></a> | <a href="#"><u>LS0851502F075C1A</u></a> | <a href="#"><u>LS0851502F075S1A</u></a> | <a href="#"><u>LS0851506F120C1A</u></a> |
| <a href="#"><u>LS0851500F100C2C</u></a> | <a href="#"><u>LS0851500F100V2A</u></a> | <a href="#"><u>LS0851500F100V2B</u></a> | <a href="#"><u>LS0851500F100V2C</u></a> | <a href="#"><u>LS0851500F160C1B</u></a> |
| <a href="#"><u>LS0851500F160C2B</u></a> | <a href="#"><u>LS0851500F160C2C</u></a> | <a href="#"><u>LS0851500F160S1A</u></a> | <a href="#"><u>LS0851500F160V1A</u></a> | <a href="#"><u>LS0851500F160V2A</u></a> |
| <a href="#"><u>LS0851500F250C1B</u></a> | <a href="#"><u>LS0851500F250S1C</u></a> | <a href="#"><u>LS0851500F250V1A</u></a> | <a href="#"><u>LS0851500F250V1C</u></a> | <a href="#"><u>LS0851500F250V2A</u></a> |
| <a href="#"><u>LS0851501F100C1A</u></a> | <a href="#"><u>LS0851501F160C2A</u></a> | <a href="#"><u>LS0851502F045C2A</u></a> | <a href="#"><u>LS0851502F075C1C</u></a> | <a href="#"><u>LS0851502F120C1A</u></a> |
| <a href="#"><u>LS0851502F120C1C</u></a> | <a href="#"><u>LS0851502F120V1A</u></a> | <a href="#"><u>LS0851503F025C2A</u></a> | <a href="#"><u>LS0851504F050C2C</u></a> | <a href="#"><u>LS0851504F085C2B</u></a> |
| <a href="#"><u>LS0851505F160C2B</u></a> | <a href="#"><u>LS0851505F250V1A</u></a> | <a href="#"><u>LS0851506F120C2A</u></a> | <a href="#"><u>LS085R100F100C1A</u></a> | <a href="#"><u>LS085R100F160C1A</u></a> |
| <a href="#"><u>LS085R102F045C1A</u></a> | <a href="#"><u>LS085R104F050C1A</u></a> | <a href="#"><u>LS085R104F050V2B</u></a> | <a href="#"><u>LS085R104F085C1A</u></a> | <a href="#"><u>LS085R105F100S1A</u></a> |
| <a href="#"><u>LS085R105F250C1C</u></a> | <a href="#"><u>LS085R106F120C1B</u></a> | <a href="#"><u>LS0851500F160V1C</u></a> | <a href="#"><u>LS0851500F250C1A</u></a> | <a href="#"><u>LS0851502F045C1A</u></a> |
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| <a href="#"><u>LS085R101F160V2A</u></a> | <a href="#"><u>LS0851504F050C2A</u></a> | <a href="#"><u>LS085R100F100V1A</u></a> | <a href="#"><u>LS0851502F045C2C</u></a> | <a href="#"><u>LS085R102F120C1C</u></a> |
| <a href="#"><u>LS0851505F250C1C</u></a> | <a href="#"><u>LS085R105F160V2A</u></a> | <a href="#"><u>LS0851500F250S1A</u></a> | <a href="#"><u>LS0851502F075C2C</u></a> | <a href="#"><u>LS0851502F045V1A</u></a> |
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