

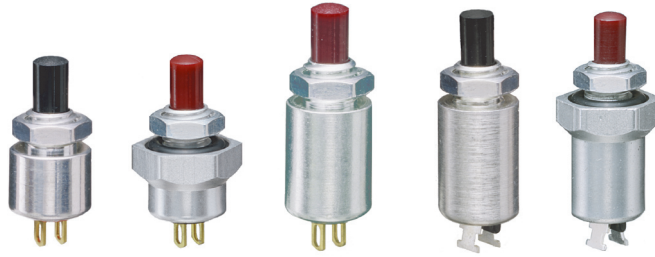
## SERIES 39

SPST, 150 mA to 1/2 Amp



### FEATURES

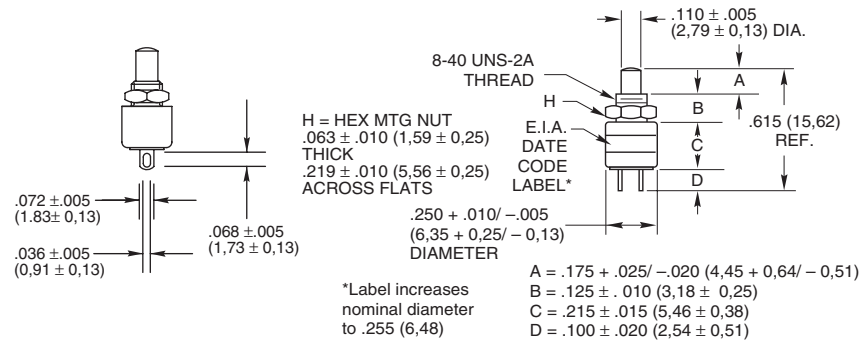
- Requires an Absolute Minimum of Space
- Molded-In Terminals in SPST-N.O.
- Solder Lug Terminals



### DIMENSIONS In Inches (and millimeters)

#### Normally Open-SPST Economy and Standard Version

39-1  
39-3  
39-601\*



#### Economy Version

| Electrical Ratings | Operations at Rated Load | *Complete Part Number | Button Color             |
|--------------------|--------------------------|-----------------------|--------------------------|
| At 5 Vdc<br>150 mA | At 20 Vdc<br>20 mA       | 1,000,000             | 39-601 RED<br>39-601 BLK |

| Action    | Total Travel              | Actuating Force (oz.) | Mtg. Hole          |
|-----------|---------------------------|-----------------------|--------------------|
| Momentary | .035 ± .015 (0.89 ± 0.38) | 4 + 4<br>- 2          | 11/64" (4.37) DIA. |

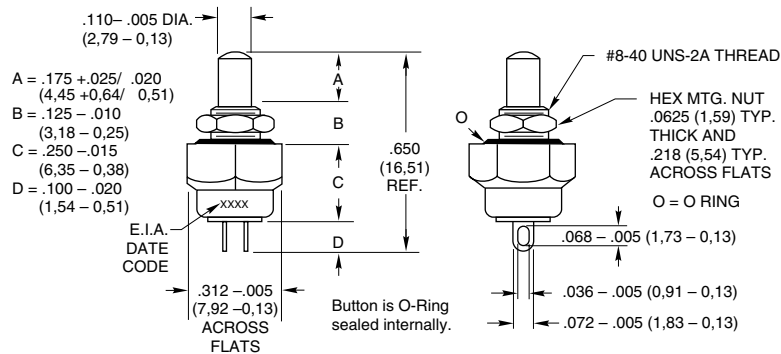
#### Standard

| Electrical Ratings         | Operations at Rated Load   | Complete Part Number | Button Color |
|----------------------------|----------------------------|----------------------|--------------|
| At 115 Vac<br>1/2 Amp Res. | At 220 Vac<br>1/4 Amp Res. | 1,000,000            | 39-1<br>39-3 |

| Action    | Total Travel              | Actuating Force (oz.) | Mtg. Hole          |
|-----------|---------------------------|-----------------------|--------------------|
| Momentary | .035 ± .015 (0.89 ± 0.38) | 4 + 4<br>- 2          | 11/64" (4.37) DIA. |

#### Normally Open-SPST with Sealed Bushing and Button

39-351\*

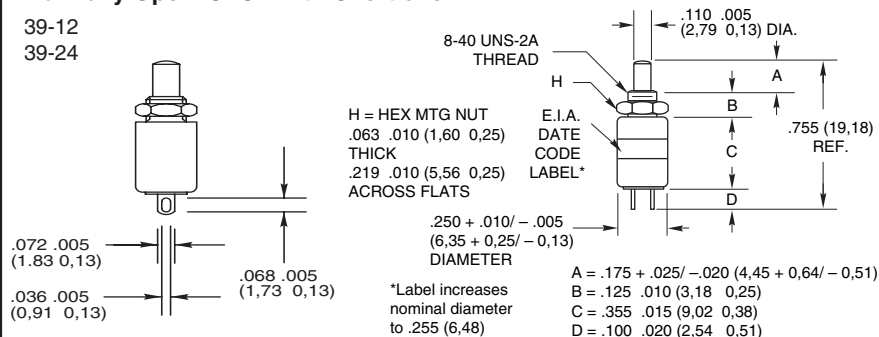


| Rating at 115 Vac Resistive | Rating at 220 Vac Resistive | Operations at Rated Load | *Complete Part Number    | Button Color |
|-----------------------------|-----------------------------|--------------------------|--------------------------|--------------|
| 1/2 Amp                     | 1/4 Amp                     | 250,000                  | 39-351 RED<br>39-351 BLK | Red<br>Black |

| Action    | Total Travel              | Actuating Force (oz.) |
|-----------|---------------------------|-----------------------|
| Momentary | .035 ± .015 (0.89 ± 0.38) | 16 ± 8                |

#### Normally Open-SPST with Overtravel

39-12  
39-24



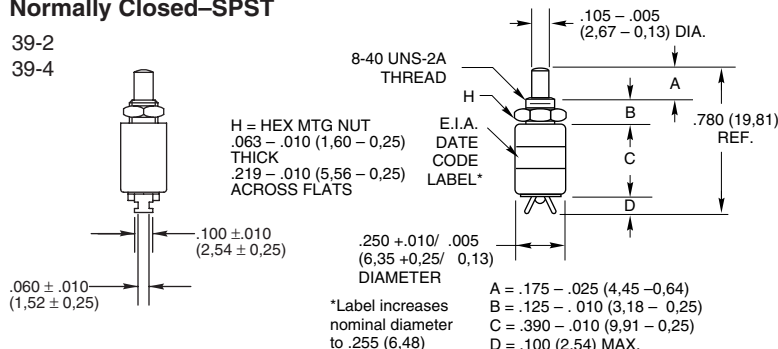
| Rating at 115 Vac Resistive | Rating at 220 Vac Resistive | Operations at Rated Load | Complete Part Number | Button Color |
|-----------------------------|-----------------------------|--------------------------|----------------------|--------------|
| 1/2 Amp                     | 1/4 Amp                     | 100,000                  | 39-12<br>39-24       | Red<br>Black |

| Action    | Total Travel              | Over Travel      | Actuating Force (oz.) | Mtg. Hole          |
|-----------|---------------------------|------------------|-----------------------|--------------------|
| Momentary | .130 ± .025 (3.30 ± 0.64) | .015 (0.38) Min. | 5 ± 3                 | 11/64" (4.37) DIA. |

### DIMENSIONS In Inches (and millimeters)

### Normally Closed–SPST

39-2  
39-4

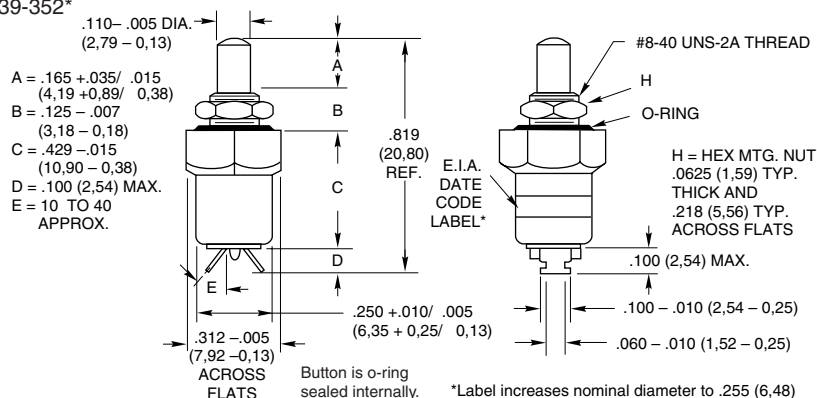


| Rating at<br>115 Vac<br>Resistive | Rating at<br>220 Vac<br>Resistive | Operations<br>at Rated<br>Load | Part<br>Number | Cap<br>Color |
|-----------------------------------|-----------------------------------|--------------------------------|----------------|--------------|
| 1/4 Amp                           | 1/8 Amp                           | 250,000                        | 39-2           | Black        |

| Action    | Total Travel                | Actuating Force (oz.) | Mtg. Hole            |
|-----------|-----------------------------|-----------------------|----------------------|
| Momentary | .042 ± .010<br>(.07 ± 0.25) | + 4<br>- 2            | .172<br>(.4,37) DIA. |

### Normally Closed–SPST with Sealed Bushing and Button

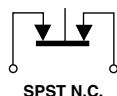
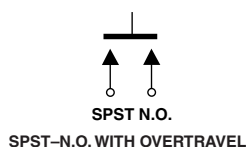
39-352\*



| Rating at<br>115 Vac<br>Resistive | Rating at<br>220 Vac<br>Resistive | Operations<br>at Rated<br>Load | *Complete<br>Part<br>Number | Button<br>Color |
|-----------------------------------|-----------------------------------|--------------------------------|-----------------------------|-----------------|
| 1/4 Amp                           | 1/8 Amp                           | 100,000                        | 39-352 RED<br>39-352 BLK    | Red<br>Black    |

| Action    | Total Travel                 | Actuating Force (oz.) |
|-----------|------------------------------|-----------------------|
| Momentary | .042 ± .010<br>(.017 ± 0.25) | 8 ± 4                 |

## CIRCUITRY



## Materials and Finishes

**Mounting Nut:** Brass, tin zinc

**Housing:** Aluminum, clear anodized for 39-351 and 39-352; Brass, zinc trivalent chromate-plated for others

**Button:** Thermoset plastic

**Base:** Thermoset plastic

**Shorting Bar:** Fine silver for 39-2 and 39-352; brass, gold-plated over nickel plate for 39-601; fine silver, gold-plated for others

**Terminals:** Fine silver for 39-2 and 39-352; commercial bronze with gold-plated fine silver contact surface for others

**Spring:** Tinned music wire

**O-Rings:** (39-351 and 39-352) Internal ring is silicone; external ring is buna 'N'

## SPECIFICATIONS

### Rating Criteria

**Contact Resistance:** 25 milliohms maximum on a new switch

**Voltage Breakdown:** 1,000 Vac between mutually insulated parts

**Insulation Resistance:** 1,000 megohms minimum

**Operating Temperature:** -40°C to +85°C

**Mounting Torque:** 2 inch-pounds

## ACCESSORY



### Button Cap

Part No. 30B1012

For use with part numbers  
39-351 and 39-352.

(Fasten to button with

Cyanoacrylate Adhesive)

See page E-XXfor dimensions.

## ORDERING INFORMATION

| Part Number       | Description                   |
|-------------------|-------------------------------|
| <b>39-1</b>       | N.O., Red Button              |
| <b>39-2</b>       | N.C., Black Button            |
| <b>39-3</b>       | N.O., Black Button            |
| <b>39-4</b>       | N.C., Red Button              |
| <b>39-12</b>      | N.O., Overtravel Red Button   |
| <b>39-24</b>      | N.O., Overtravel Black Button |
| <b>39-351 RED</b> | N.O., Sealed, Red Button      |
| <b>39-351 BLK</b> | N.O., Sealed, Black Button    |
| <b>39-352 RED</b> | N.C., Sealed, Red Button      |
| <b>39-352 BLK</b> | N.C., Sealed, Black Button    |
| <b>39-601 RED</b> | N.O., Economy, Red Button     |
| <b>39-601 BLK</b> | N.O., Economy, Black Button   |

Accessory cap may be used with all switches shown except 39-2.

| Accessory<br>Part Number | Description      |
|--------------------------|------------------|
| 30B1012-5                | Red Button Cap   |
| 30B1012-9                | Black Button Cap |
| 30B1012-8                | White Button Cap |

**Available from your local Grayhill Distributor.**

For prices and discounts, contact a local Sales Office, an authorized local Distributor or Grayhill.

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)