

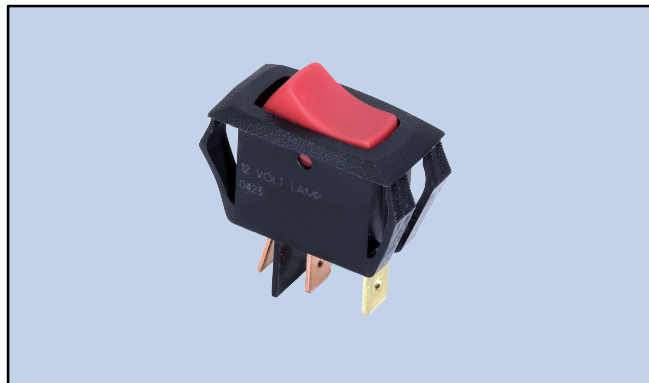
# Illuminated Rocker Switches

## Miniature Snap-In for Low Voltage Applications



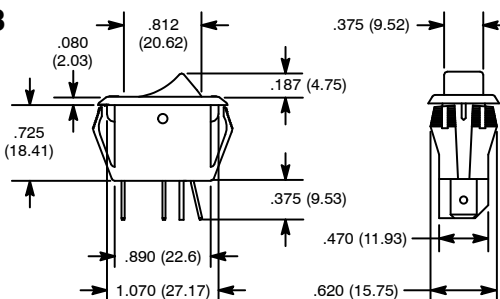
### Features

- For Low Voltage Applications
- .250" Quick Connect Terminals

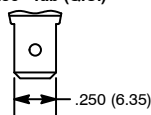


| NTE Type No. | Circuitry | Action |      |    | Actuator          | Lens Color | Diag No. |
|--------------|-----------|--------|------|----|-------------------|------------|----------|
| 54-083       | SPST      | OFF    | NONE | ON | Translucent Nylon | Red        | S18b     |
| 54-086       | SPST      | OFF    | NONE | ON | Clear Nylon       | Blue       | S18b     |

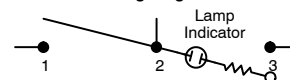
S18



Terminal Types  
b: .250" Tab (Q.C.)



Wiring Diagram



## Specifications

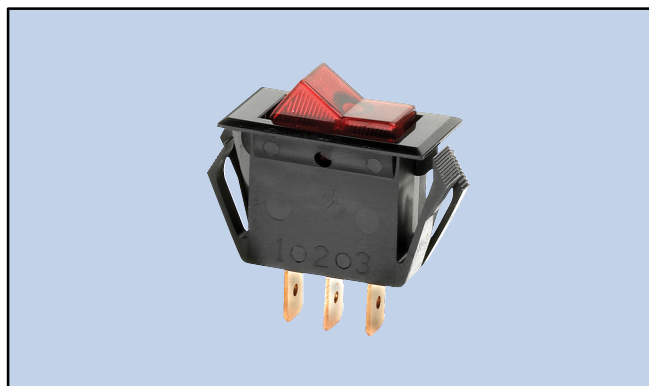
**Current Rating:** 10A 12VDC  
**Lamp Voltage:** 12V Incandescent  
**Insulation Resistance:** 100 Megohms (min.)  
**Dielectric Strength:** 1000V RMS (min.)  
**Temperature Rating:** +32° to +185°F (0° to +85°C)  
**Electrical Life:** 100,000 cycles  
**Mechanical Life:** 100,000 cycles  
**Terminal Type:** .250" Tab Q.C.  
**Mounting Hole:** 1.125 (28.58) x .550 (13.97)

## Miniature Snap-In Nylon



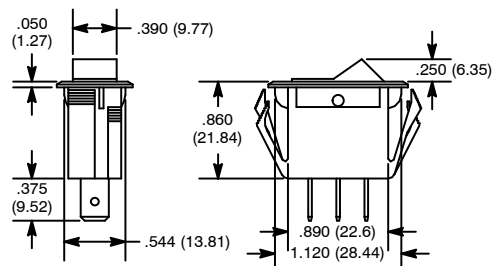
### Features

- Single Pole
- Double Insulated



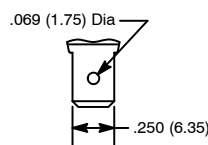
| NTE Type No. | Circuitry | Action |      |    | Actuator | Lens Color | Diag No. |
|--------------|-----------|--------|------|----|----------|------------|----------|
| 54-054       | SPST      | OFF    | NONE | ON | Nylon    | Red        | S16b     |

S16

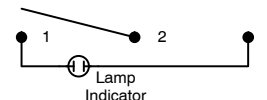


Terminal Types

b: .250" Tab (Q.C.)



Wiring Diagram



## Specifications

**Current Rating:** 15A 125VAC, 10A 250VAC, 3/4 HP 125-250VAC  
**Lamp Voltage:** 125V Neon  
**Insulation Resistance:** 100 Megohms (min.)  
**Dielectric Strength:** 1000V RMS (min.)  
**Temperature Rating:** +32° to +185°F (0° to +85°C)  
**Electrical Life:** 100,000 cycles  
**Mechanical Life:** 100,000 cycles  
**Terminal Type:** .250" Tab Q.C.  
**Mounting Hole:** 1.125 (28.57) x .550 (13.97)

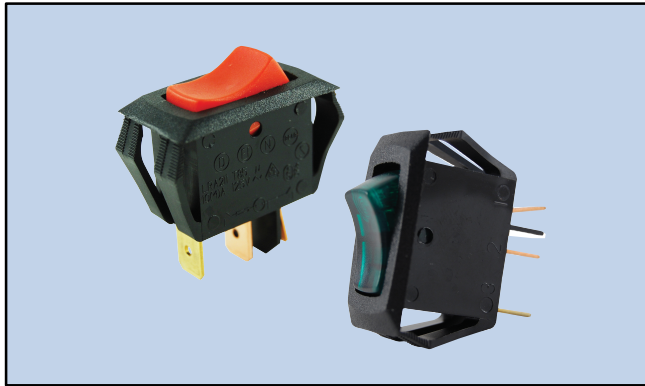
# Illuminated Rocker Switches

## Miniature Snap-In Nylon



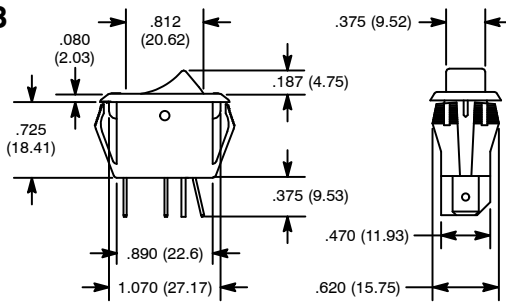
### Features

- Single Pole
- .250" Quick Connect Terminals

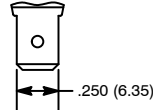


| NTE Type No. | Circuitry | Action |      |    | Actuator          | Lens Color | Diag No. |
|--------------|-----------|--------|------|----|-------------------|------------|----------|
| 54-064       | SPST      | OFF    | NONE | ON | Translucent Nylon | Amber      | S18b     |
| 54-065       | SPST      | OFF    | NONE | ON |                   | Red        | S18b     |
| 54-517       | SPST      | OFF    | NONE | ON | Clear Nylon       | Red        | S18b     |
| 54-518       | SPST      | OFF    | NONE | ON |                   | Green      | S18b     |
| 54-519       | SPST      | OFF    | NONE | ON |                   | Amber      | S18b     |

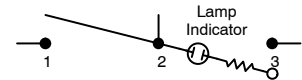
S18



Terminal Types  
b: .250" Tab (Q.C.)



Wiring Diagram



## Specifications

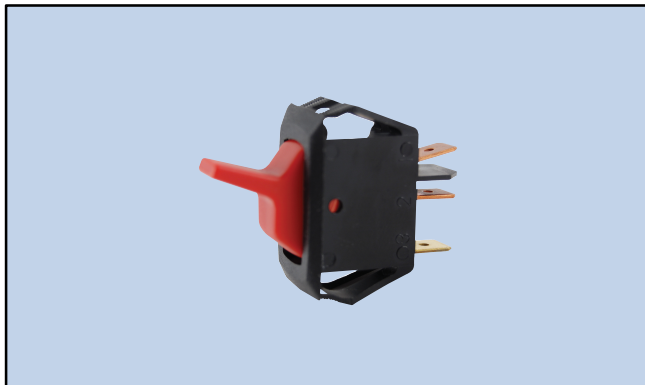
**Current Rating:** 16A 125VAC, 10A 250VAC, 10(4)A 250VAC T85  
**Lamp Voltage:** 125V Neon  
**Insulation Resistance:** 100 Megohms (min.)  
**Dielectric Strength:** 1000V RMS (min.)  
**Temperature Rating:** +32° to +185°F (0° to +85°C)  
**Electrical Life:** 100,000 cycles  
**Mechanical Life:** 100,000 cycles  
**Terminal Type:** .250" Tab Q.C.  
**Mounting Hole:** 1.125 (28.58) x .550 (13.97)

## Miniature Snap-In Nylon



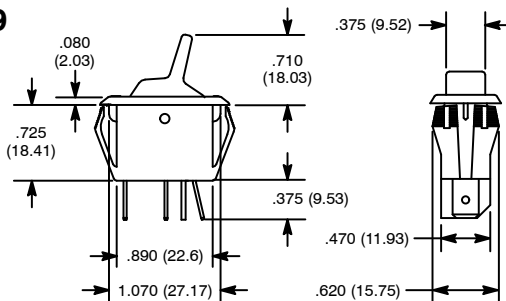
### Features

- Single Pole
- .250" Quick Connect Terminals



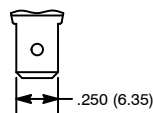
| NTE Type No. | Circuitry | Action |      |    | Actuator          | Lens Color | Diag No. |
|--------------|-----------|--------|------|----|-------------------|------------|----------|
| 54-105       | SPST      | OFF    | NONE | ON | Translucent Nylon | Amber      | S19b     |
| 54-106       | SPST      | OFF    | NONE | ON |                   | Red        | S19b     |

S19

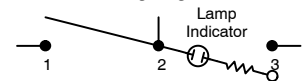


Terminal Types

b: .250" Tab (Q.C.)



Wiring Diagram



## Specifications

**Current Rating:** 16A 125VAC, 10A 250VAC, 10(4)A 250VAC  
**Lamp Voltage:** 125V Neon  
**Insulation Resistance:** 100 Megohms (min.)  
**Dielectric Strength:** 1000V RMS (min.)  
**Temperature Rating:** +32° to +185°F (0° to +85°C)  
**Electrical Life:** 100,000 cycles  
**Mechanical Life:** 100,000 cycles  
**Terminal Type:** .250" Tab Q.C.  
**Mounting Hole:** 1.125 (28.58) x .550 (13.97)



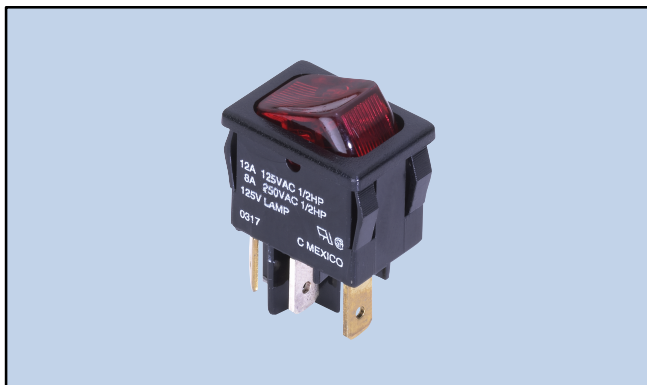
# Illuminated Rocker Switches

## Miniature Snap-In Nylon



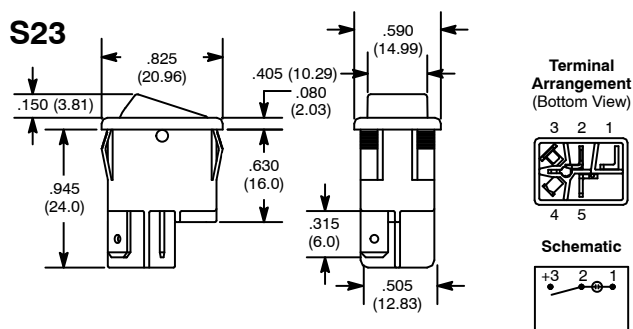
### Features

- Single Pole
- .187" Quick Connect Terminals
- Fits Standard Panel Cutout
- High Inrush Capability
- Shallow Base Design



| NTE Type No. | Circuitry | Action |      |     | Actuator      | Lens Color | Diag No. |
|--------------|-----------|--------|------|-----|---------------|------------|----------|
| 54-080       | SPST      | ON     | NONE | OFF | Polycarbonate | Red        | S23b     |

### S23



#### Terminal Types

b: .187" Tab (Q.C.)

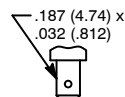
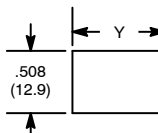


Table 1.

| Panel Thickness           | Y            |
|---------------------------|--------------|
| .030 (.762) - .060 (1.52) | .756 (19.20) |
| .060 (1.52) - .093 (2.36) | .764 (19.40) |
| .093 (2.36) - .156 (3.96) | .780 (19.81) |



## Specifications

**Current Rating:** 12A 125VAC, 8A 250VAC, 1/2 HP 125-250VAC

**Lamp Voltage:** 125V Neon

**Insulation Resistance:** 50 Megohms (min.)

**Dielectric Strength:** 1500V RMS (min.)

**Temperature Rating:** +32° to +185°F (0° to +85°C)

**Electrical Life:** 50,000 cycles

**Mechanical Life:** 100,000 cycles

**Terminal Type:** .187" Tab Q.C.

**Mounting Hole:** See Table 1

## Miniature Snap-In Nylon



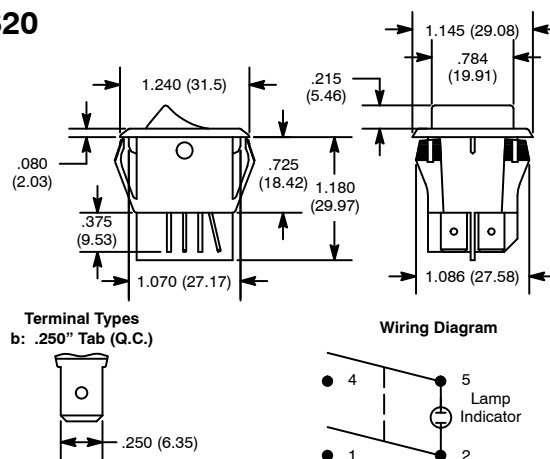
### Features

- Double Pole
- .250" Quick Connect Terminals
- High Inrush Capability

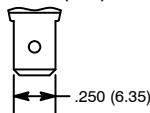


| NTE Type No. | Circuitry | Action |      |    | Actuator          | Lens Color | Diag No. |
|--------------|-----------|--------|------|----|-------------------|------------|----------|
| 54-082       | DPST      | OFF    | NONE | ON | Translucent Nylon | Red        | S20b     |

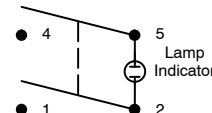
### S20



Terminal Types  
b: .250" Tab (Q.C.)



Wiring Diagram



## Specifications

**Current Rating:** 20A 125VAC, 15A 250VAC

**Lamp Voltage:** 125V Neon

**Insulation Resistance:** 100 Megohms (min.)

**Dielectric Strength:** 1000V RMS (min.)

**Temperature Rating:** +32° to +185°F (0° to +85°C)

**Electrical Life:** 50,000 cycles

**Mechanical Life:** 100,000 cycles

**Terminal Type:** .250" Tab Q.C.

**Mounting Hole:** 1.125 (28.58) x 1.000 (25.4)

# Illuminated Rocker Switches

## Snap-In Nylon



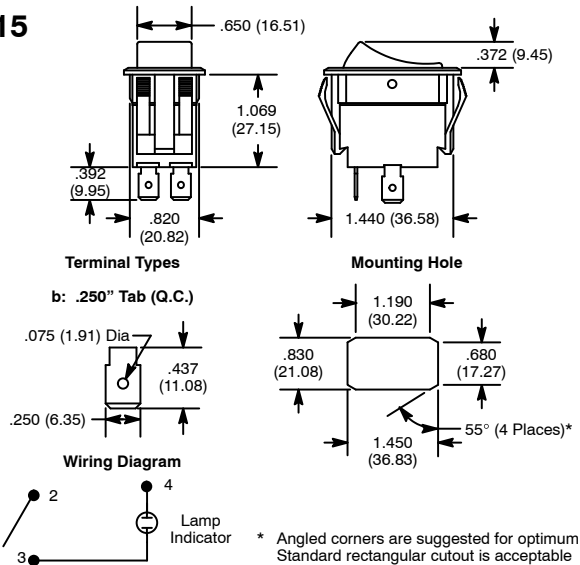
### Features

- AC Rated, Also Suitable for Low Voltage DC Applications



| NTE Type No. | Circuitry | Action |      |     | Actuator |       | Lens Color | Diag No. |
|--------------|-----------|--------|------|-----|----------|-------|------------|----------|
|              |           |        |      |     | Material | Color |            |          |
| 54-029       | SPST      | ON     | NONE | OFF | Nylon    | White | Green      | S15b     |
| 54-053       | SPST      | ON     | NONE | OFF |          | Black | Amber      | S15b     |

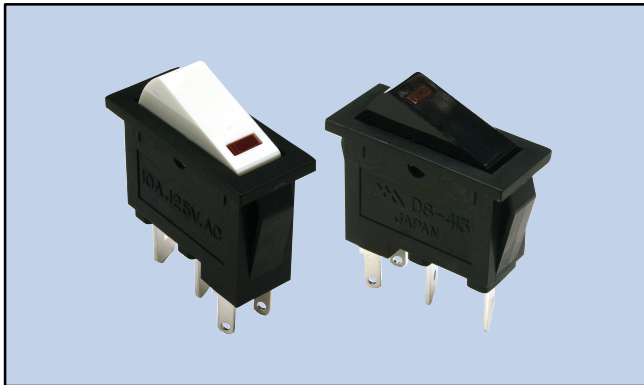
S15



## Specifications

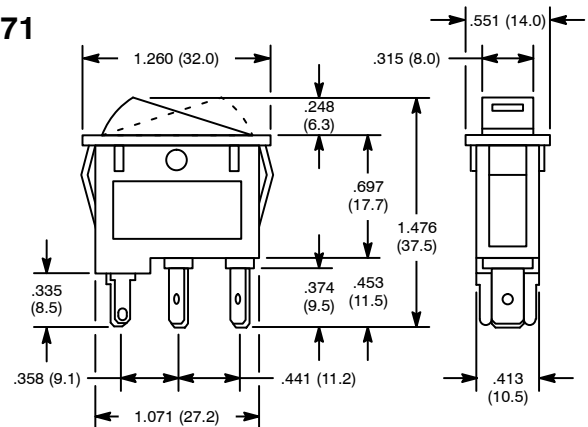
**Current Rating:** 15A 125VAC, 10A 250VAC, 1/2 HP 125-250VAC  
**Lamp Voltage:** 125V Neon (54-053), 18V Incandescent (54-029)  
**Insulation Resistance:** 100 Megohms (min.)  
**Dielectric Strength:** 1000V RMS (min.)  
**Temperature Rating:** +32° to +185°F (0° to +85°C)  
**Electrical Life:** 50,000 cycles  
**Mechanical Life:** 100,000 cycles  
**Terminal Type:** .250" Tab Q.C.  
**Mounting Hole:** 1.450 (36.83) x .830 (21.08)

## Snap-In Slimline



| NTE Type No. | Circuitry | Action |      |     | Actuator      |       | Lens Color | Diag No. |
|--------------|-----------|--------|------|-----|---------------|-------|------------|----------|
|              |           |        |      |     | Material      | Color |            |          |
| 54-386       | SPST      | ON     | NONE | OFF | Polycarbonate | White | Red        | S71      |
| 54-387       | SPST      | ON     | NONE | OFF |               | Black | Red        | S71      |

S71



## Specifications

**Current Rating:** 10A 125VAC  
**Lamp Voltage:** 2.1V LED  
**Insulation Resistance:** 100 Megohms (min.) at 500VDC  
**Dielectric Strength:** 1000V RMS (min.)  
**Temperature Rating:** +14° to +131°F (-10° to +55°C)  
**Electrical Life:** 20,000 cycles  
**Mechanical Life:** 30,000 cycles  
**Terminal Type:** .250" Tab Q.C.  
**Mounting Hole:** 1.189 (30.2) x .433 (11.0)

# Illuminated Rocker Switches

## Snap-In Round Hole



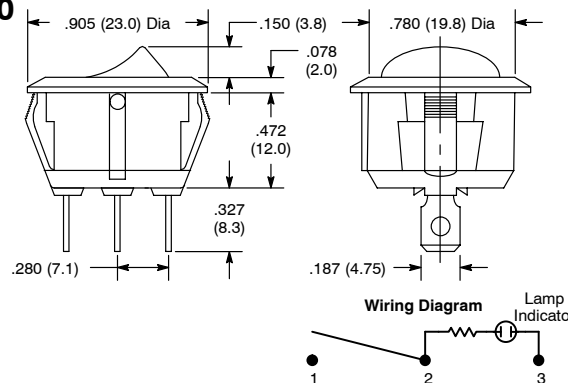
### Features

- AC and DC Types



| NTE Type No. | Circuitry | Action      | Actuator |       |       |      | Diag No. |
|--------------|-----------|-------------|----------|-------|-------|------|----------|
|              |           |             | Material | Color | LED   | Vltg |          |
| 54-506       | SPST      | ON NONE OFF | Nylon    | Red   | -     | AC   | S90      |
| 54-532       | SPST      | ON NONE OFF | Nylon    | Amber | -     | AC   | S90      |
| 54-533       | SPST      | ON NONE OFF | Nylon    | Green | -     | AC   | S90      |
| 54-534       | SPST      | ON NONE OFF | Nylon    | -     | Red   | DC   | S90      |
| 54-535       | SPST      | ON NONE OFF | Nylon    | -     | Amber | DC   | S90      |
| 54-536       | SPST      | ON NONE OFF | Nylon    | -     | Green | DC   | S90      |
| 54-537       | SPST      | ON NONE OFF | Nylon    | -     | Blue  | DC   | S90      |

S90



## Specifications

**Current Rating:** 16A 125VAC, 10A 250VAC  
**Lamp Voltage:** 110V Neon (AC) & 2V @ 20mA\* LED (DC)  
**Insulation Resistance:** 100 Megohms (min.) at 500VDC  
**Dielectric Strength:** 1500V RMS (min.)  
**Temperature Rating:** -4° to +149°F (-20° to +65°C)  
**Electrical Life:** 6000 cycles (min.)  
**Mechanical Life:** 100,000 cycles (min.)  
**Terminal Type:** .187" Tab Q.C.  
**Mounting Hole:** .795 (20.2)

\* Resistor needed for other voltages.

## Snap-In Round Hole



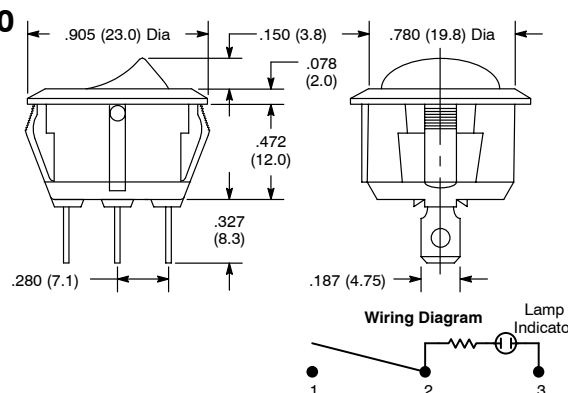
### Features

- Waterproof Types Available on Page 166



| NTE Type No. | Circuitry | Action      | Actuator |       |      |  | Diag No. |
|--------------|-----------|-------------|----------|-------|------|--|----------|
|              |           |             | Material | Color | Vltg |  |          |
| 54-525       | SPST      | ON NONE OFF | Nylon    | Amber | AC   |  | S90      |
| 54-526       | SPST      | ON NONE OFF | Nylon    | Green | AC   |  | S90      |
| 54-527       | SPST      | ON NONE OFF | Nylon    | Red   | DC   |  | S90      |
| 54-528       | SPST      | ON NONE OFF | Nylon    | Amber | DC   |  | S90      |
| 54-529       | SPST      | ON NONE OFF | Nylon    | Green | DC   |  | S90      |
| 54-530       | SPST      | ON NONE OFF | Nylon    | Blue  | DC   |  | S90      |
| 54-531       | SPST      | ON NONE OFF | Nylon    | Red   | AC   |  | S90      |

S90



## Specifications

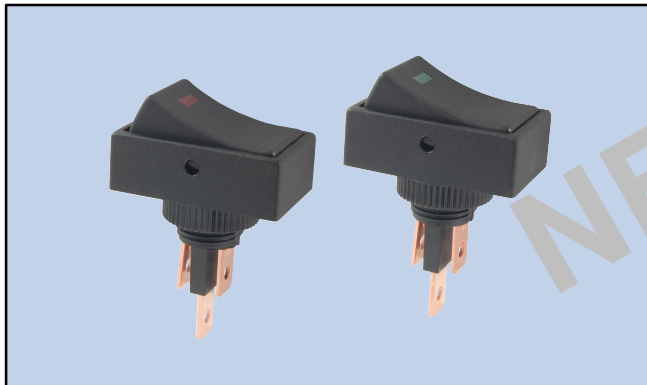
**Current Rating:** 16A 125VAC, 10A 250VAC  
**Lamp Voltage:** 110V (AC) Neon, 12V (DC) Incandescent  
**Insulation Resistance:** 100 Megohms (min.) at 500VDC  
**Dielectric Strength:** 1500V RMS (min.)  
**Temperature Rating:** -4° to +149°F (-20° to +65°C)  
**Electrical Life:** 6000 cycles (min.)  
**Mechanical Life:** 100,000 cycles (min.)  
**Terminal Type:** .187" Tab Q.C.  
**Mounting Hole:** .795 (20.2)

# Illuminated Rocker Switches

## Round Hole

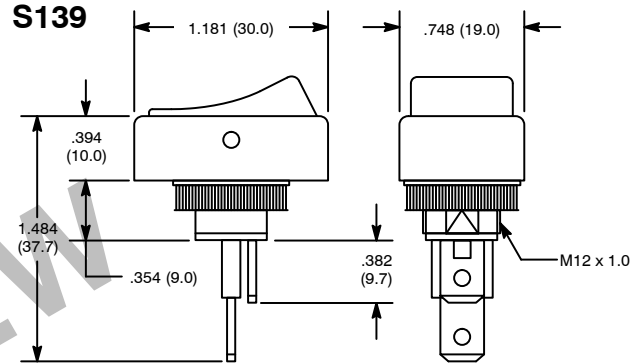
### Features

- Illuminated LED Indicator

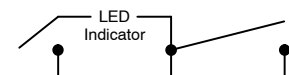


| NTE<br>Type<br>No. | Circuitry | Action |      |     | Material | Actuator |       |      | Diag<br>No. |
|--------------------|-----------|--------|------|-----|----------|----------|-------|------|-------------|
|                    |           |        |      |     |          | Color    |       | Vltg |             |
| 54-709-R           | SPST      | ON     | NONE | OFF | Nylon    | –        | Red   | DC   | S139        |
| 54-709-G           | SPST      | ON     | NONE | OFF | Nylon    | –        | Green | DC   | S139        |

S139



Wiring Diagram



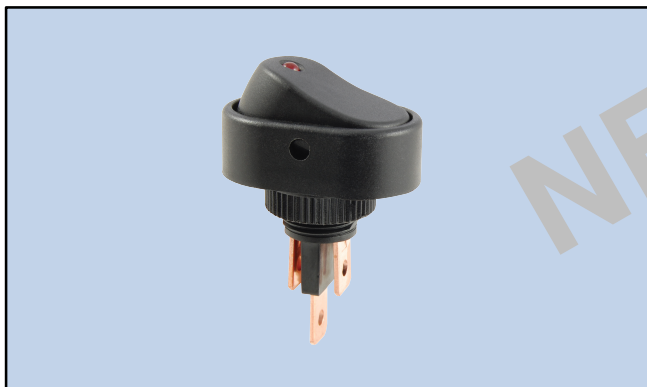
## Specifications

**Current Rating:** 25A 12VDC  
**Lamp Voltage:** 12V LED (DC)  
**Insulation Resistance:** 100 Megohms (min.) at 500VDC  
**Dielectric Strength:** 1500V RMS (min.)  
**Temperature Rating:** -4° to +185°F (-20° to +85°C)  
**Electrical Life:** 6000 cycles  
**Mechanical Life:** 10000 cycles  
**Terminal Type:** .250" Tab Q.C.  
**Mounting Hole:** .480 (12.2)

## Round Hole

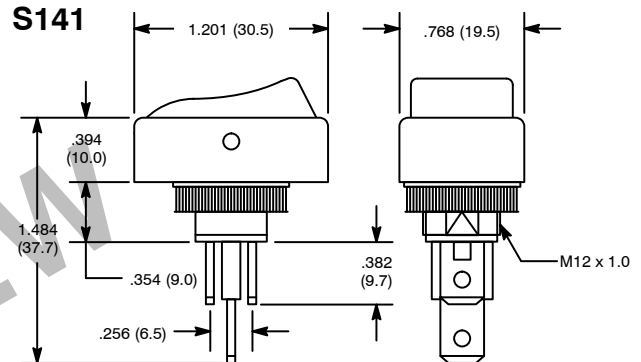
### Features

- Illuminated LED Indicator

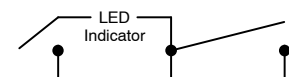


| NTE<br>Type<br>No. | Circuitry | Action |      |     | Material | Actuator |     |      | Diag<br>No. |
|--------------------|-----------|--------|------|-----|----------|----------|-----|------|-------------|
|                    |           |        |      |     |          | Color    |     | Vltg |             |
| 54-711             | SPST      | ON     | NONE | OFF | Nylon    | –        | Red | DC   | S141        |

S141



Wiring Diagram



## Specifications

**Current Rating:** 30A 12VDC  
**Lamp Voltage:** 12V LED (DC)  
**Insulation Resistance:** 100 Megohms (min.) at 500VDC  
**Dielectric Strength:** 1500V RMS (min.)  
**Temperature Rating:** -13° to +185°F (-25° to +85°C)  
**Electrical Life:** 6000 cycles  
**Mechanical Life:** 10000 cycles  
**Terminal Type:** .250" Tab Q.C.  
**Mounting Hole:** .480 (12.2)

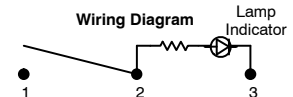
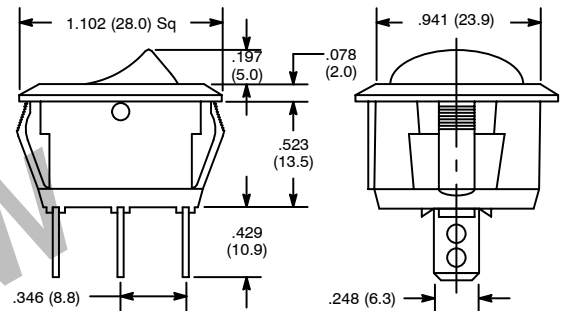
# Illuminated Rocker Switches

## Snap-In Round Hole



| NTE Type No. | Circuitry | Action      | Actuator |       |      |     | Diag No. |
|--------------|-----------|-------------|----------|-------|------|-----|----------|
|              |           |             | Material | Color | Neon | LED |          |
| 54-734       | SPST      | ON NONE OFF | Nylon    | -     | Red  | DC  | S144     |

### S144



## Specifications

**Current Rating:** 25A 12VDC  
**Lamp Voltage:** 12V LED (DC)  
**Insulation Resistance:** 100 Megohms (min.) at 500VDC  
**Dielectric Strength:** 1500V RMS (min.)  
**Temperature Rating:** -4° to +149°F (-20° to +65°C)  
**Electrical Life:** 6000 cycles  
**Mechanical Life:** 10000 cycles  
**Terminal Type:** .250" Tab Q.C.  
**Mounting Hole:** .945 (24.0)

## Round Hole, Square Bezel

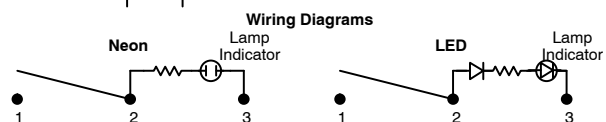
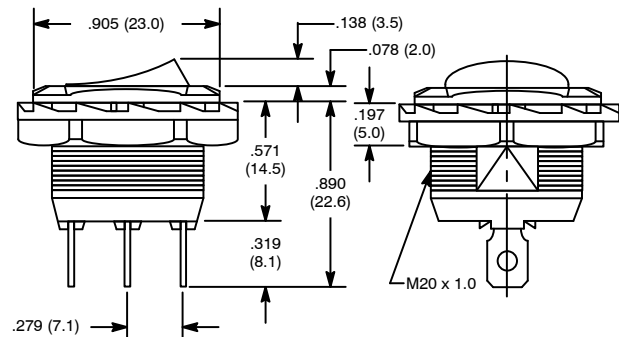
### Features

- Circuit Contains Illuminated Indicator
- Single Pole



| NTE Type No. | Circuitry | Action      | Actuator |       |      |     | Diag No. |
|--------------|-----------|-------------|----------|-------|------|-----|----------|
|              |           |             | Material | Color | Neon | LED |          |
| 54-513       | SPST      | ON NONE OFF | Nylon    | Red   | -    | AC  | S93      |
| 54-549       | SPST      | ON NONE OFF | Nylon    | Amber | -    | AC  | S93      |
| 54-550       | SPST      | ON NONE OFF | Nylon    | Green | -    | AC  | S93      |
| 54-712       | SPST      | ON NONE OFF | Nylon    | -     | Red  | DC  | S93      |

### S93



## Specifications

**Current Rating:** 16A 125VAC, 10A 250VAC  
 20A 12VDC (54-712 Only)  
**Lamp Voltage:** 110V Neon (AC), 12V LED (DC)  
**Insulation Resistance:** 100 Megohms (min.) at 500VDC  
**Dielectric Strength:** 1500V RMS (min.)  
**Temperature Rating:** -4° to +149°F (-20° to +65°C)  
**Electrical Life:** 6000 cycles (min.)  
**Mechanical Life:** 100,000 cycles (min.)  
**Terminal Type:** .187" Tab Q.C.  
**Mounting Hole:** .795 (20.2)

NOTE: 54-712 is not UL

# Illuminated Rocker Switches

## Round Hole, Square Bezel

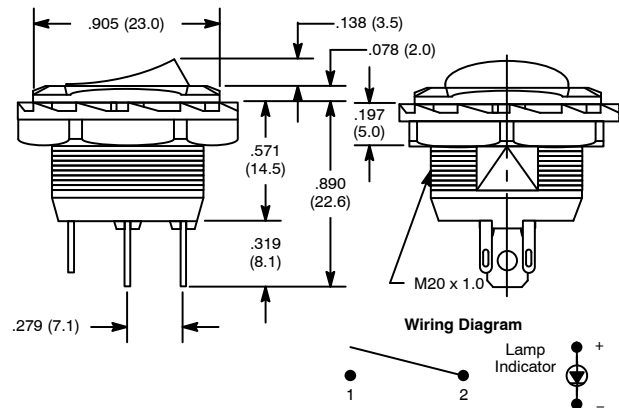
### Features

- Independent, Illuminated LED Indicator
- Single Pole



| NTE Type No. | Circuitry | Action |      |     | Actuator |           | Diag No. |
|--------------|-----------|--------|------|-----|----------|-----------|----------|
|              |           |        |      |     | Material | LED Color |          |
| 54-551       | SPST      | ON     | NONE | OFF | Nylon    | Red       | S118     |
| 54-552       | SPST      | ON     | NONE | OFF | Nylon    | Amber     | S118     |
| 54-553       | SPST      | ON     | NONE | OFF | Nylon    | Green     | S118     |
| 54-554       | SPST      | ON     | NONE | OFF | Nylon    | Blue      | S118     |

### S118



## Specifications

**Current Rating:** 16A 125VAC, 10A 250VAC  
**Lamp Voltage:** 3V LED  
**Insulation Resistance:** 100 Megohms (min.) at 500VDC  
**Dielectric Strength:** 1500V RMS (min.)  
**Temperature Rating:** -4° to +149°F (-20° to +65°C)  
**Electrical Life:** 6000 cycles (min.)  
**Mechanical Life:** 100,000 cycles (min.)  
**Terminal Type:** .187" Tab Q.C.  
**Mounting Hole:** .795 (20.2)

## Round Hole, Square Bezel

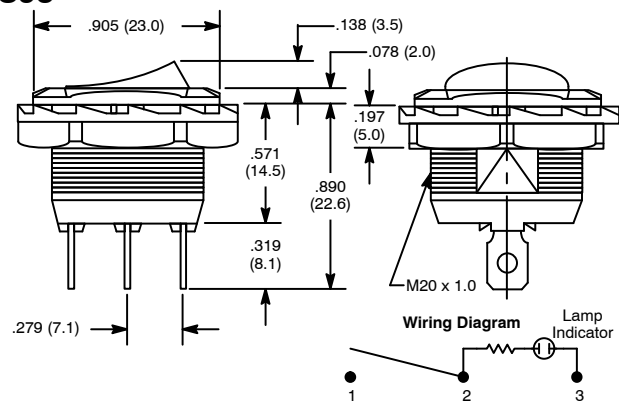
### Features

- Illuminated LED Indicator



| NTE<br>Type<br>No. | Circuitry | Action |      |     | Actuator |       |       |      | Diag<br>No. |
|--------------------|-----------|--------|------|-----|----------|-------|-------|------|-------------|
|                    |           |        |      |     | Material | Color |       | Vltg |             |
|                    |           |        |      |     |          | Neon  | LED   |      |             |
| 54-645             | SPST      | ON     | NONE | OFF | Nylon    | —     | Red   | DC   | S93         |
| 54-645-A           | SPST      | ON     | NONE | OFF | Nylon    | —     | Amber | DC   | S93         |
| 54-645-G           | SPST      | ON     | NONE | OFF | Nylon    | —     | Green | DC   | S93         |
| 54-645-B           | SPST      | ON     | NONE | OFF | Nylon    | —     | Blue  | DC   | S93         |

### S93



## Specifications

**Current Rating:** 20A 12VDC  
**Lamp Voltage:** 2V @ 20mA LED (DC)  
**Insulation Resistance:** 100 Megohms (min.) at 500VDC  
**Dielectric Strength:** 1500V RMS (min.)  
**Temperature Rating:** -13° to +185°F (-25° to +85°C)  
**Electrical Life:** 6000 cycles (min.)  
**Mechanical Life:** 100,000 cycles (min.)  
**Terminal Type:** .187" Tab Q.C.  
**Mounting Hole:** .795 (20.2)



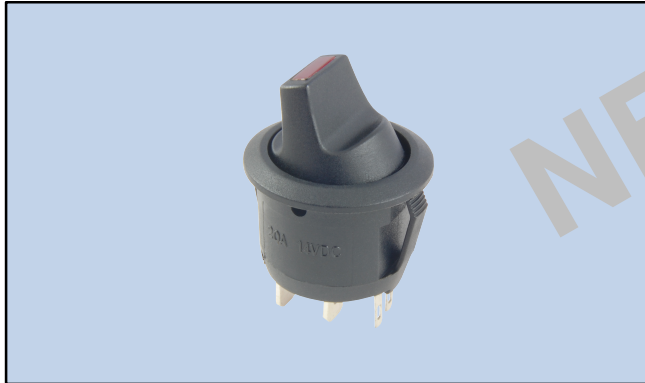
# Illuminated Rocker Switches

## Snap-In Paddle Handle



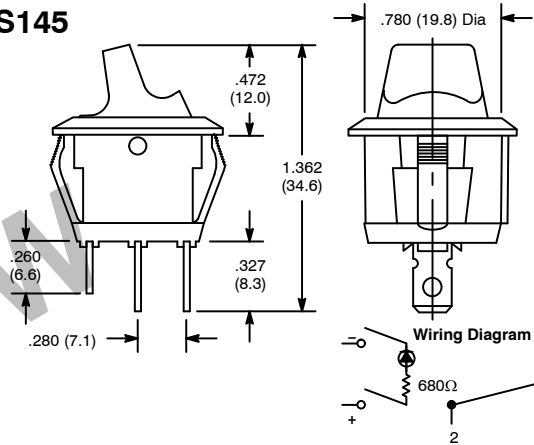
### Features

- Snap-In Mounting, Easy to Install Switch into Panel
- Actuator: Black, Nylon #66
- .187" Quick Connect Terminals



| NTE Type No. | Circuitry | Action      | Actuator |       |      |     | Diag No. |
|--------------|-----------|-------------|----------|-------|------|-----|----------|
|              |           |             | Material | Color | Neon | LED |          |
| 54-740       | SPST      | ON NONE OFF | Nylon    | -     | -    | Red | DC S145  |

### S145



### Specifications

**Current Rating:** 20A 14VDC  
**Lamp Voltage:** 12V LED (DC)  
**Insulation Resistance:** 100 Megohms (min.) at 500VDC  
**Dielectric Strength:** 1500V RMS (min.)  
**Temperature Rating:** -13° to +185°F (-25° to +85°C)  
**Electrical Life:** 6000 cycles  
**Mechanical Life:** 10000 cycles  
**Terminal Type:** .187" Tab Q.C.  
**Mounting Hole:** .795 (20.2)

## Single & Dual Color



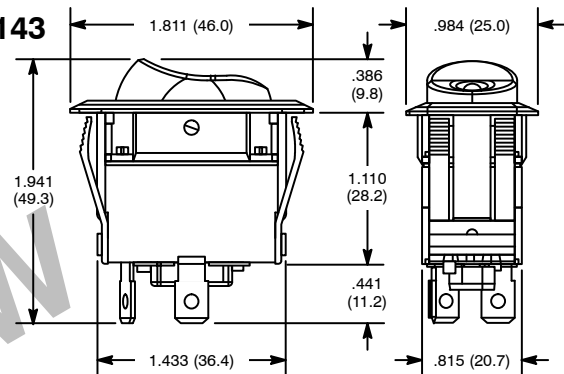
### Features

- Single and Dual Color Types
- Actuator: Black, Nylon #66
- .250" Quick Connect Terminals



| NTE Type No. | Circuitry | Current Rating | Action      | Actuator Color |           |       |     | Diag No. |
|--------------|-----------|----------------|-------------|----------------|-----------|-------|-----|----------|
|              |           |                |             | Neon           | LED       | Green | Red |          |
| 54-736-1     | SPST      | A              | ON NONE OFF | -              | Green     | -     | -   | S143     |
| 54-736-2     | SPST      | B              | ON NONE OFF | -              | Green     | -     | -   | S143     |
| 54-737-1     | SPST      | C              | ON OFF ON   | -              | Green/Red | -     | -   | S143     |
| 54-737-2     | SPDT      | A              | ON OFF ON   | -              | Green/Red | -     | -   | S143     |

### S143



### Specifications

**Current Rating:**  
**A:** 16A 125VAC 3/4 HP, 16(4)A 125VAC  
**B:** 21A 14VDC  
**C:** 20A 12VDC, 10A 24VDC  
**Lamp Voltage:** 12V LED; 110V LED (54-737-2 ONLY)  
**Insulation Resistance:** 100 Megohms (min.) at 500VDC  
**Dielectric Strength:** 1500V RMS (min.)  
**Temperature Rating:** -4° to +185°F (-20° to +85°C)  
**Electrical Life:** 6000 cycles  
**Mechanical Life:** 10000 cycles  
**Terminal Type:** .250" Tab Q.C.  
**Mounting Hole:** 1.457 (37.0) x .835 (21.2)

Lamp Circuit Diagrams

