Illuminated Rocker Switches

Miniature Snap–In for Low Voltage Applications

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

![Image of Miniature Snap–In for Low Voltage Applications]

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Lens Color</th>
<th>Diag No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>54–083</td>
<td>SPST</td>
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<td>NONE</td>
<td>ON</td>
<td>Translucent Nylon</td>
</tr>
<tr>
<td>54–086</td>
<td>SPST</td>
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<td>NONE</td>
<td>ON</td>
<td>Clear Nylon</td>
</tr>
</tbody>
</table>

Miniature Snap–In Nylon

Features
- Single Pole
- Double Insulated

![Image of Miniature Snap–In Nylon]

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Lens Color</th>
<th>Diag No.</th>
</tr>
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<tbody>
<tr>
<td>54–054</td>
<td>SPST</td>
<td>OFF</td>
<td>NONE</td>
<td>ON</td>
<td>Nylon</td>
</tr>
</tbody>
</table>

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
- .250" Quick Connect Terminals

![Image of illuminated rocker switches](image-url)

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Lens Color</th>
<th>Diag No.</th>
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<tbody>
<tr>
<td>54-064</td>
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<td>Amber</td>
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<tr>
<td>54-065</td>
<td>SPST</td>
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<td>NONE</td>
<td>Red</td>
<td>S18b</td>
</tr>
<tr>
<td>54-517</td>
<td>SPST</td>
<td>OFF</td>
<td>NONE</td>
<td>Clear Nylon</td>
<td>Red</td>
</tr>
<tr>
<td>54-518</td>
<td>SPST</td>
<td>OFF</td>
<td>NONE</td>
<td>Green</td>
<td>S18b</td>
</tr>
<tr>
<td>54-519</td>
<td>SPST</td>
<td>OFF</td>
<td>NONE</td>
<td>Amber</td>
<td>S18b</td>
</tr>
</tbody>
</table>

**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°F to +185°F (0°C 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

![Image of illuminated rockers with red lens]

<table>
<thead>
<tr>
<th>Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Lens Color</th>
<th>Diag No.</th>
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<tbody>
<tr>
<td>54-080</td>
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<td>NONE OFF</td>
<td>Polycarbonate</td>
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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°F to +185°F (0°C 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

![Image of illuminated rockers with green lens]

<table>
<thead>
<tr>
<th>Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Actuator</th>
<th>Lens Color</th>
<th>Diag No.</th>
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<tr>
<td>54-082</td>
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<td>NONE ON</td>
<td>Translucent Nylon</td>
<td>S20b</td>
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Specifications

Current Rating: 20A 125VAC, 15A 250VAC
Lamp Voltage: 125V Neon
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Temperature Rating: +32°F to +185°F (0°C 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

 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

 Specifications
Current Rating: 10A 125VAC
Lamp Voltage: 2.1V LED
Insulation Resistance: 100 Megohms (min.) at 500VDC
Dielectric Strength: 1000V RMS (min.)
Temperature Rating: +32° 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)
Snap–In Round Hole

Features
- AC and DC Types

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Material</th>
<th>Color</th>
<th>Vltg</th>
<th>Diag No.</th>
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<tr>
<td>54–506</td>
<td>SPST</td>
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<td>Nylon</td>
<td>Red</td>
<td>–</td>
<td>AC S90</td>
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<tr>
<td>54–532</td>
<td>SPST</td>
<td>ON</td>
<td>Nylon</td>
<td>Amber</td>
<td>–</td>
<td>AC S90</td>
</tr>
<tr>
<td>54–532</td>
<td>SPST</td>
<td>ON</td>
<td>Nylon</td>
<td>Green</td>
<td>–</td>
<td>AC S90</td>
</tr>
<tr>
<td>54–535</td>
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<td>UN</td>
<td>Nylon</td>
<td>Red</td>
<td>DL</td>
<td>S90</td>
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<tr>
<td>54–538</td>
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<td>ON</td>
<td>Nylon</td>
<td>Green</td>
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<td>S90</td>
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<tr>
<td>54–537</td>
<td>SPST</td>
<td>UN</td>
<td>Nylon</td>
<td>Blue</td>
<td>DL</td>
<td>S90</td>
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</table>

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)

* Resistor needed for other voltages.

Snap–In Round Hole

Features
- Waterproof Types Available on Page 166

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Action</th>
<th>Material</th>
<th>Color</th>
<th>Vltg</th>
<th>Diag No.</th>
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<td>AC</td>
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<td>54–526</td>
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<td>Green</td>
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<td>S90</td>
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<td>54–527</td>
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<td>UN</td>
<td>Nylon</td>
<td>Red</td>
<td>DL</td>
<td>S90</td>
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<td>54–528</td>
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<td>ON</td>
<td>Nylon</td>
<td>Amber</td>
<td>DL</td>
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<td>54–529</td>
<td>SPST</td>
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<td>Nylon</td>
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<td>54–536</td>
<td>SPST</td>
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<td>Nylon</td>
<td>Blue</td>
<td>DC</td>
<td>S90</td>
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<td>54–531</td>
<td>SPST</td>
<td>UN</td>
<td>Nylon</td>
<td>Red</td>
<td>AC</td>
<td>S90</td>
</tr>
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</table>

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

![Illuminated Rocker Switches - Round Hole](image)

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuit</th>
<th>Action</th>
<th>Material</th>
<th>Color</th>
<th>Vltg</th>
<th>Diag No.</th>
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<td>Nylon</td>
<td>Red</td>
<td>DC</td>
<td>S139</td>
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<tr>
<td>54-709-G</td>
<td>SPST</td>
<td>OFF</td>
<td>Nylon</td>
<td>Green</td>
<td>DC</td>
<td>S139</td>
</tr>
</tbody>
</table>

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: .490 (12.2)

Round Hole

Features
- Illuminated LED Indicator

![Illuminated Rocker Switches - Round Hole](image)

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuit</th>
<th>Action</th>
<th>Material</th>
<th>Color</th>
<th>Vltg</th>
<th>Diag No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>54-711</td>
<td>SPST</td>
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<td>Nylon</td>
<td>Red</td>
<td>DC</td>
<td>S141</td>
</tr>
</tbody>
</table>

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

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°F to +149°F (−20°C 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

Specifications

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

NTE Electronics, Inc. • Voice (973) 748–5089 • FAX (973) 748–6224 • http://www.nteinc.com
Illuminated Rocker Switches

Round Hole, Square Bezel

Features
- Independent, Illuminated LED Indicator
- Single Pole

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°F to +149°F (−20°C 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

Snap–In Paddle Handle

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

![Image of Snap–In Paddle Handle Switch]

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Current Rating</th>
<th>Action</th>
<th>Material</th>
<th>Neon</th>
<th>LED</th>
<th>Vltg</th>
<th>Diag No.</th>
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<tbody>
<tr>
<td>54-740</td>
<td>SPST</td>
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<td>NONE</td>
<td>Nylon</td>
<td>-</td>
<td>Red</td>
<td>DC</td>
<td>S145</td>
</tr>
</tbody>
</table>

![Wiring Diagram for Snap–In Paddle Handle Switch]

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

Single & Dual Color

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

![Image of Single & Dual Color Switches]

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Circuitry</th>
<th>Current Rating</th>
<th>Action</th>
<th>Material</th>
<th>Neon</th>
<th>LED</th>
<th>Vltg</th>
<th>Diag No.</th>
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<tbody>
<tr>
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<td>SPST</td>
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<td>S143</td>
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<td>54-736-2</td>
<td>SPST</td>
<td>B</td>
<td>ON</td>
<td>NONE</td>
<td>Off</td>
<td>-</td>
<td>Green</td>
<td>S143</td>
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<tr>
<td>54-737-1</td>
<td>SPST</td>
<td>C</td>
<td>ON</td>
<td>Off</td>
<td>ON</td>
<td>-</td>
<td>Red</td>
<td>S143</td>
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<td>54-737-2</td>
<td>SPDT</td>
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<td>ON</td>
<td>Off</td>
<td>ON</td>
<td>-</td>
<td>Green/Red</td>
<td>S143</td>
</tr>
</tbody>
</table>

![Lamp Circuit Diagrams for Single & Dual Color Switches]

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: .187" Tab Q.C.
- Mounting Hole: .795 (20.2)