ELECTRIC SWITCH LOCK – INTRODUCTION
Stanley Security Solutions offers a line of electric switch locks available in various “on-off” and “momentary” keyed switch functions. Circuitry variations are available in single, double and triple pole with varied voltage and amperage ratings. Units may be keyed into any BEST system. The BEST interchangeable core offers versatility and adaptability for new and existing electrical controls, panels, machines, etc.

Features
• Double D lock cylinder prevents slipping and turning
• Screw terminals on all switch locks (except the 1W7A1) provides ease of installation
• All switches are UL recognized or listed

Note on functionality: Switch lock keys can only be removed in the 12 o’clock position.

How to select a switch lock
1. Determine the electrical requirements for the device being controlled:
   A. Voltage (for example: 115 VAC or 24 VDC)
   B. Current or horsepower (for example: 6 amps or 1/2 horsepower)
   C. Type of load
      • Resistive (for example, heater elements)
      • Inductive (for example, motors, large transformers)
      • Lamp (for example, incandescent lights)

2. Determine the switch configuration (poles and throws) and key removal condition:
   A. Poles  To determine the number of poles, find how many wires from the power source need to be switched on and off by the switch lock.
   B. Throws  To determine the number of throws, find how many wires to the device the switch needs to control. For example, if a switch needs two different “on” conditions (low and high speed), two throws are needed. Or if the device is simply an “on-off” type (only one wire), you need one throw.

   Note: A switch throw may be left unwired and used as an “off” condition.
   C. Key removal  To determine the key removal condition, ask the question, “When the key is removed, should the switch be “off”, or could the switch be either “on” or “off”?”. Although the key can only be removed in the 12 o’clock position, the switch itself may be left in two or three positions. Check each switch lock for key removal switch positions.

3. Use the information collected and find the switch lock that best meets the requirements. Refer to the following catalog pages for a description of each switch lock. If environmental conditions make it necessary that the switch lock be housed in an electrical box, see the Optional boxes (above) for the box that best suits the switch lock and your application.

OPTIONAL BOXES

HOW TO ORDER – 1W ELECTRIC SWITCH LOCK

<table>
<thead>
<tr>
<th>1W Series</th>
<th>7</th>
<th>B1</th>
<th>626 Finishes</th>
<th>SWR Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>1W</td>
<td>7 pin housing accepts all BEST cores</td>
<td>see pages 15–19</td>
<td>605 606 611 612 613 619 622 625 626 690</td>
<td>see above</td>
</tr>
</tbody>
</table>

See above
### 1W Electric Switch Locks

#### 1W7A1

<table>
<thead>
<tr>
<th>Contacts</th>
<th>Silver or gold flash</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact rating</td>
<td>28 VDC, 10 amps resistive</td>
</tr>
<tr>
<td>Horsepower rating</td>
<td>125 VAC, 1/4 HP</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-85°F to +257°F (-65° to +125°C)</td>
</tr>
<tr>
<td>Switch type</td>
<td>SPDT (Single pole-double throw)</td>
</tr>
<tr>
<td>Switch lock action</td>
<td>Maintained (on-on)</td>
</tr>
<tr>
<td>Number of switches per assembly</td>
<td>One</td>
</tr>
</tbody>
</table>

#### 1W7B1 & 1W7J1

| Contacts | 28 VDC, 10 amps resistive |
| Horsepower rating | 125–250 VAC, 1/2 HP |
| Operating temperature | up to +176°F (+80°C) |
| Switch type | SPDT (Single pole-double throw) |
| Switch lock action | Maintained (on-on) |
| Number of switches per assembly | 1W7B1: One 1W7J1: Two |

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#### Key & switch positions

<table>
<thead>
<tr>
<th>Key pos.1– Swt. pos.1</th>
<th>Key pos.2– Swt. pos.2</th>
<th>Key pos. 1 only Swt.</th>
</tr>
</thead>
</table>

#### Remove key

<table>
<thead>
<tr>
<th></th>
<th>DWR</th>
<th>INT</th>
<th>OC1</th>
<th>OC2</th>
</tr>
</thead>
</table>

#### Optional boxes

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OC1</td>
</tr>
<tr>
<td></td>
<td>OC2</td>
</tr>
<tr>
<td></td>
<td>SWR</td>
</tr>
</tbody>
</table>

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The shaded area shows the additional 1W7J1 switch and cam length.
1W ELECTRIC SWITCH LOCKS
1W7B2 & 1W7J2

Contact rating ........................................ 30 VDC, 15 amps, resistive
125 VDC, 0.6 amps, resistive
250 VDC, 0.3 amps, resistive
125 VAC, 15 amps, resistive
125 VAC, 5 amps, lamp
250 VAC, 15 amps, resistive

Horsepower rating ........................................ 125–250 VAC, 1/2 HP

Operating temperature .......................... up to +176°F (+80°C)

Switch type ................................................... SPDT (Single pole-double throw)

Switch lock action ........................................... Momentary (on-on)

Number of switches per assembly ................. 1W7B2: One 1W7J2: Two

The shaded area shows the additional 1W7J2 switch and cam length.

Key & switch positions

- Key pos. 1 – Swt. pos. 1
- Key pos. 2 – Swt. pos. 2
- Key pos. 1 and 2 – Swt. pos. 1 and 2

Optional boxes

- OC1 DWR
- OC2 INT
- SWR (1W7B2 only)

1W7B2—One switch
1W7J2—Two switches

1W7B3 & 1W7J3

Contact rating ........................................ 30 VDC, 15 amps, resistive
125 VDC, 0.6 amps, resistive
250 VDC, 0.3 amps, resistive
125 VAC, 15 amps, resistive
125 VAC, 5 amps, lamp
250 VAC, 15 amps, resistive

Horsepower rating ........................................ 125–250 VAC, 1/2 HP

Operating temperature .......................... up to +176°F (+80°C)

Switch type ................................................... SPDT (Single pole-double throw)

Switch lock action ........................................... Maintained (on-on)

Number of switches per assembly ................. 1W7B3: One 1W7J3: Two

The shaded area shows the additional 1W7J3 switch and cam length.

Key & switch positions

- Key pos. 1 and 2 – Swt. pos. 1 and 2

Optional boxes

- OC1 DWR
- OC2 INT
- SWR (1W7B3 only)

1W7B3—One switch
1W7J3—Two switches
1W ELECTRIC SWITCH LOCKS

1W7D2

Contact rating ................................................. 110 VAC or VDC, 10 amps, lamp
Horsepower rating ........................................... .1 HP @ 125–250 VAC or VDC
Operating temperature ................................... -40°F to +150°F (-40°C to +66°C)
Switch type ..................................................... SPST (Single pole-single throw)
Switch lock action ........................................... Maintained (off-on)
Number of switches per assembly ..................... One

Key & switch positions
Key pos. 1– Swt. pos. 1
Key pos. 2– Swt. pos. 2
Key pos. 3 only, Swt. pos. 1 and 2†

Remove key
OC2 DWR
INT SWR

†Installing the limiting plate limits key removal to switch position 1 or 2. The key is always removed in the vertical position (key position 1).

1W7C2

Contact rating ................................................. 110 VAC or VDC, 16 amps, resistive
Horsepower rating ........................................... 1 HP @ 125–250 VAC or VDC
Operating temperature ................................... -40°F to +150°F (-40°C to +66°C)
Switch type ..................................................... DPST (Double pole-single throw)
Switch lock action ........................................... Maintained (off-on)
Number of switches per assembly ..................... One

Key & switch positions
Key pos. 1– Swt. pos. 1
Key pos. 2– Swt. pos. 2
Key pos. 3 only, Swt. pos. 1 and 2

Remove key
OC1 OC2
**1W ELECTRIC SWITCH LOCKS**

### 1W7E2

- **Contact rating**: 110 VAC, 15 amps, resistive
- **Horsepower rating**: 125–250 VAC or VDC, 1/2 HP, 1, 2, or 3 phase
- **Operating temperature**: 0 to +150°F (-18°C to 66°C)
- **Switch type**: DPDT (Double pole-double throw)
- **Switch lock action**: Momentary (on-center off-on)
- **Number of switches per assembly**: One

### 1W7K4

- **Contact rating**: 110 VAC, 15 amps, resistive
- **Horsepower rating**: 250 VAC, 1/2 HP
- **Operating temperature**: 0 to +212°F (+105°C)
- **Switch type**: DPDT (Double pole-double throw)
- **Switch lock action**: Momentary (on-center off-on)
- **Number of switches per assembly**: One

*Installing the limiting plate limits key removal to switch position 2, or 3. The key is always removed in the vertical position (key position 1). The limiting plate is available for 1W7E2 only.*
1W ELECTRIC SWITCH LOCKS

**1W7L2**

- **Contact rating**: 110 VAC or VDC, 12 amps, resistive; 220 VAC or VDC, 6 amps, resistive
- **Operating temperature**: up to +221°F (+105°C)
- **Switch type**: SPDT (Single pole-double throw)
- **Switch lock action**: Maintained (on-on)
- **Number of switches per assembly**: One

**1W7P4 & 1W7R4**

- **Contact rating**: 30 VDC, 15 amps, resistive; 125 VDC, 0.6 amps, resistive; 250 VDC, 0.3 amps, resistive; 125 VAC, 15 amps, resistive; 125 VAC, 5 amps, lamp; 250 VAC, 15 amps, resistive
- **Horsepower rating**: 125–250 VAC, 1/2 HP
- **Operating temperature**: up to +176°F (+80°C)
- **Switch type**: SPDT (Single pole-double throw)
- **Switch lock action**: Momentary (on-on)
- **Number of switches per assembly**: 1W7P4: Two; 1W7R4: Four

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**Key & switch positions**

- **1W7L2**: Key pos. 1, Swt. pos. 1; Key pos. 2, Swt. pos. 2; Key pos. 3 only, Swt. pos. 1 and 2
- **1W7P4 & 1W7R4**: Key pos. 1 only, Swt. pos. 1 only; Key pos. 1, Swt. pos. 1; Key pos. 3, Swt. pos. 3; Key pos. 2, Swt. pos. 2

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**Remove key**

- **1W7L2**: DWR, OC2
- **1W7P4 & 1W7R4**: SWR†, INT†, SWRT†, INT†, DWR†, 1W7P4 only

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**Optional boxes**

- **1W7L2**: DWR, OC2
- **1W7P4 & 1W7R4**: SWR†, INT†, DWR†, 1W7P4 only

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The shaded area shows the additional 1W7R4 switches and cam length.