Footswitches

Selection table: contact arrangements

- Catalogue model (stock item or to order)
  - Technically possible (to special order)
    - not available

Options

- EEx certificated versions available
  acc. ATEX 100 a
  guideline 94/9/EG
  TÜV 03 ATEX 2043 X

Contacts/Pedals

<table>
<thead>
<tr>
<th>Function</th>
<th>Contacts</th>
<th>Circuit diagram</th>
<th>Contacts Ref:</th>
<th>Additional features Ref:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slow make &amp; break</td>
<td>1NC/1NO</td>
<td>1</td>
<td>U1U1Z</td>
<td></td>
</tr>
<tr>
<td>Slow make &amp; break</td>
<td>1NC/1NO</td>
<td>2</td>
<td>U1</td>
<td>Latch switch</td>
</tr>
<tr>
<td>Slow make &amp; break</td>
<td>1NC/1NO</td>
<td>3</td>
<td>U1</td>
<td>Emergency stop button</td>
</tr>
<tr>
<td>Slow make &amp; break</td>
<td>1NC/1NO</td>
<td>6</td>
<td>U1</td>
<td>Latch switch</td>
</tr>
<tr>
<td>Snap action</td>
<td>1NC/1NO</td>
<td>4</td>
<td>SU1/SU1Z</td>
<td></td>
</tr>
<tr>
<td>Snap action</td>
<td>1NC/1NO</td>
<td>5</td>
<td>SU1Z</td>
<td>Pressure point</td>
</tr>
<tr>
<td>Snap action</td>
<td>1NC/1NO</td>
<td>7</td>
<td>SU1Z</td>
<td>Power contactor</td>
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<tr>
<td>Snap action</td>
<td>1NC/1NO</td>
<td>8</td>
<td>SU1Z</td>
<td>Latch switch/power contactor</td>
</tr>
<tr>
<td>Snap action</td>
<td>2NC/2NO</td>
<td>9</td>
<td>SU1 Mi</td>
<td>Potentiometer</td>
</tr>
<tr>
<td>Snap action/slow make &amp; break</td>
<td>1NC/2NO</td>
<td>10</td>
<td>SU1Z/UV1</td>
<td>Safety function with pressure point</td>
</tr>
<tr>
<td>Slow make &amp; break</td>
<td>2NC/2NO</td>
<td>11</td>
<td>U2Z</td>
<td></td>
</tr>
<tr>
<td>Slow make &amp; break</td>
<td>2NC/2NO</td>
<td>12</td>
<td>U2Z</td>
<td>Pressure point</td>
</tr>
<tr>
<td>Snap action</td>
<td>2NC/2NO</td>
<td>13</td>
<td>SU2Z</td>
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<td>Electronic output</td>
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<td>Pedal protection</td>
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<td>Pedal latch</td>
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<td>Foot support</td>
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<td></td>
<td></td>
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<td></td>
<td>Drop down pedal guard</td>
</tr>
</tbody>
</table>

Circuit diagrams

1.

![Circuit Diagram 1](image1.png)

2.

![Circuit Diagram 2](image2.png)

3.

![Circuit Diagram 3](image3.png)

4.

![Circuit Diagram 4](image4.png)

5.

![Circuit Diagram 5](image5.png)

6.

![Circuit Diagram 6](image6.png)
Ordering instructions for footswitches

The following part numbers or type references of our catalogue versions are sufficient to place an order for a Bernstein footswitch. To ensure correct supply of footswitches with non-standard contact combinations or accessories, which are not shown in the catalogue we require the exact type reference.

1. **Type** of footswitch requested – F1, F2, F3 or FG
2. **Number and type of contact inserts** for multiple-pedal switches, list in order from left to right.
   Example: F3-U1Z/SU1Z/U2Z
3. **Information about additional functions, design or pedal accessories**
   This must be indicated in the type reference directly after the appropriate contact element.
   Example: With latch & pressure point – F3-U1Z/SU1Y/U2ZD

### Circuit diagrams

- **Type F1**
  - Page 56
- **Type F1 UN**
  - Page 58
- **Type F2**
  - Page 61
- **Type F2 UN**
  - Page 62
- **Type F3**
  - Page 63
- **Type F3 UN**
  - Page 63

<table>
<thead>
<tr>
<th>Type</th>
<th>Pedal 1</th>
<th>Pedal 2</th>
<th>Pedal 3</th>
<th>Pedal independent addition</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1</td>
<td>–</td>
<td>Contact type</td>
<td>Additional function</td>
<td>Accessory</td>
</tr>
<tr>
<td>F2</td>
<td>–</td>
<td>Contact type</td>
<td>Additional function</td>
<td>Contact type</td>
</tr>
<tr>
<td>F3</td>
<td>–</td>
<td>Contact type</td>
<td>Additional function</td>
<td>Contact type</td>
</tr>
</tbody>
</table>

Example:

- F3 – U1
  - SU1 Y
  - U2 D
  - UN

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**Circuit diagrams**

- 21 \(\rightarrow\) 22
  - 13 \(\rightarrow\) 14
- 21 \(\rightarrow\) 22
  - 13 \(\rightarrow\) 14
- P1
  - P3
  - 11 \(\rightarrow\) 12
- 33 \(\rightarrow\) 34
  - 25 \(\rightarrow\) 26
  - 13 \(\rightarrow\) 14
- 43 \(\rightarrow\) 44
  - 31 \(\rightarrow\) 32
  - 23 \(\rightarrow\) 24
  - 11 \(\rightarrow\) 12
  - U1Z
  - 43 \(\rightarrow\) 44
  - 31 \(\rightarrow\) 32
  - 23 \(\rightarrow\) 24
  - 11 \(\rightarrow\) 12
  - 41 \(\rightarrow\) 42
  - 21 \(\rightarrow\) 22
  - 13 \(\rightarrow\) 14

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**Switches**

- 13 14
- 21 22
- 13 14
- 21 22
- 14
- P2
- P1
- P3
- 11 12
- 33 34
- 25 26
- 13 14
- 23 24
- 31 32
- 43 44
- 11 12
- 43 44
- 31 32
- 23 24
- 11 12
- 41 42
- 21 22
- 13 14

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**Additional notes**

- Type Pedal 1 Pedal 2 Pedal 3 Pedal independent addition
- F1 – Contact type Additional function Accessory
- F2 – Contact type Additional function Contact type Additional function Accessory
- F3 – Contact type Additional function Contact type Additional function Contact type Additional function Accessory

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**Example:**

- F3 – U1
  - SU1 Y
  - U2 D
  - UN