## Pushbutton Switches

<table>
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<th>Series</th>
<th>Head Shape</th>
<th>Function</th>
<th>Round</th>
<th>Square</th>
<th>Rectangular</th>
<th>Color</th>
<th>Page No.</th>
</tr>
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<tbody>
<tr>
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<td>Alternate</td>
<td>ADA16S6-AR2-A2</td>
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<tr>
<td></td>
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<td>Momentary</td>
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<td></td>
<td></td>
<td>Momentary</td>
<td>ADA16S6-MA5-A1</td>
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<td>❌</td>
<td>12-14</td>
</tr>
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</table>

## Selector Switches

<table>
<thead>
<tr>
<th>Series</th>
<th>Head Shape</th>
<th>Illustration</th>
<th>Two Position</th>
<th>Three Position</th>
<th>Color</th>
<th>Page No.</th>
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<tbody>
<tr>
<td>ADA16C</td>
<td>Standard</td>
<td>A E U</td>
<td>ADA16C6-AA1-AA</td>
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</tr>
<tr>
<td></td>
<td>Square</td>
<td>A E U</td>
<td>ADA16C6-AS1-AA</td>
<td>ADA16C6-AS1-AE</td>
<td>ADA16C6-AS1-AH</td>
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<td>ADA16C6-MS1-AU</td>
<td>ADA16C6-MS1-AE</td>
<td>ADA16C6-MS1-AS</td>
<td>❌</td>
</tr>
<tr>
<td></td>
<td>Rectangular</td>
<td>A E U</td>
<td>ADA16C6-AT1-AA</td>
<td>ADA16C6-AT1-AE</td>
<td>ADA16C6-AT1-AH</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>ADA16C6-MT1-AU</td>
<td>ADA16C6-MT1-AE</td>
<td>ADA16C6-MT1-AS</td>
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<td>Flange</td>
<td>A E U</td>
<td>ADA16C6-AC1-AA</td>
<td>ADA16C6-AC1-AE</td>
<td>ADA16C6-AC1-AH</td>
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<td></td>
<td></td>
<td>ADA16C6-MC1-AU</td>
<td>ADA16C6-MC1-AE</td>
<td>ADA16C6-MC1-AS</td>
<td>❌</td>
</tr>
</tbody>
</table>
**DESCRIPTION**

* Detachable design for operation and contact parts, easy installation.
* Operation Part is possessed of Illuminated Pushbutton function, Pushbutton function and Indicator function.
* Available Size: Rectangular 18 x 24mm 
  Square 18 x 18mm & 24 x 24mm  
  Round: diameter ø 18mm 
* With multiple functional bezel, the above shapes can be suitable for different panel like Mosaic panel.
* IP65 degree for water-proof, liquid and oil prevention enables the device to be used in different field equipments.
* Applied UL94 V0 high grade fire prevention plastic material.
* High bezel designed to prevent the accidental touch when installing the device.
* Can be engraved or marked with different signs on lens with many color options.
* Illuminated with incandescent, LED and fluorescent light to have a better effect.
* Easy disassembly and additional contacts are available.
* With special terminal design, it can be used in different PCBs by using soldering or socketing terminal.
* Precision design enables the device with longer mechanical life by operation under the normal environment.
* Mechanical life: Momentary 2 million operations min.
* Approvals: UL/CUL/VDE/CE

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Electrical Rating</strong></td>
<td>250V AC 5A(VDE) 125V AC 8A</td>
</tr>
<tr>
<td><strong>Insulation Resistance</strong></td>
<td>50mΩ(initial)accroding 512-2 to IEC</td>
</tr>
<tr>
<td><strong>Mechanical Life</strong></td>
<td>momentary: 2 million operations min</td>
</tr>
<tr>
<td><strong>Electrical Life</strong></td>
<td>50,000 operations min</td>
</tr>
<tr>
<td><strong>Insulation Withstand Voltage</strong></td>
<td>1500V AC 60Hz 1min between all terminals and ground</td>
</tr>
<tr>
<td><strong>Actuating Force</strong></td>
<td>1a1b:0.5kgf / 2a2b:0.8kgf</td>
</tr>
<tr>
<td><strong>Contact Material</strong></td>
<td>Silver</td>
</tr>
<tr>
<td><strong>Terminal</strong></td>
<td>Soldering / plug-in type</td>
</tr>
<tr>
<td><strong>Quick-Connect Terminal</strong></td>
<td>2.8 x 0.5mm</td>
</tr>
<tr>
<td><strong>Wire Range</strong></td>
<td>1x1.5mm² max</td>
</tr>
<tr>
<td><strong>Cable Range</strong></td>
<td>2x0.75mm² /1x1.0mm² Max</td>
</tr>
<tr>
<td><strong>Lighting</strong></td>
<td>LED/incandescent/fluorescent</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>-40°C→+70°C</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-25°C→+55°C</td>
</tr>
<tr>
<td><strong>Degree of Contamination</strong></td>
<td>Class II</td>
</tr>
<tr>
<td><strong>Degree of Protection</strong></td>
<td>IP65</td>
</tr>
</tbody>
</table>

**ADA16S Ø16**
**ORDER INFORMATION**

**MODEL FORMAT** ADA16S6-1 2 3 4 2 5 6

1. **OPTIONAL FUNCTION**
   - M: MOMENTARY
   - A: ALTERNATE

2. **HEAD SHAPE**
   - R1: ROUND, LOW BEZEL
   - R2: ROUND, HIGH BEZEL
   - S1: SQUARE, LOW BEZEL
   - S2: SQUARE, HIGH BEZEL
   - T1: RECTANGULAR, LOW BEZEL
   - T2: RECTANGULAR, HIGH BEZEL
   - A5: SQUARE(□24), FULL GUARD

3. **CONTACT ARRANGEMENT**
   - A: 1NO/1NC+1NO/1NC
   - B: 1NO/1NC

4. **LAMPS**
   - D: Without lamps
   - A: Incandescent 6V AC/DC 200mA
   - B: Incandescent 14V AC/DC 80mA
   - C: Incandescent 28V AC/DC 40mA
   - D: Incandescent 48V AC/DC 25mA
   - E: Incandescent 60V AC/DC 20mA
   - F: Neon 110V AC
   - G: Neon 220V AC
   - H: LED 6V DC
   - J: LED 12V DC
   - K: LED 24V DC
   - L: Incandescent 33V AC/DC 35mA
   - M: Incandescent 6V AC/DC 40mA
   - N: Incandescent 14V AC/DC 40mA

5. **LENS COLOR**
   - B: Blue
   - G: Green
   - O: Orange
   - R: Red
   - W: White
   - Y: Yellow
HEAD SHAPE

<table>
<thead>
<tr>
<th>SHAPE</th>
<th>R1: ROUND, LOW BEZEL</th>
<th>R2: ROUND, HIGH BEZEL</th>
<th>S1: SQUARE, LOW BEZEL</th>
<th>S2: SQUARE, HIGH BEZEL</th>
<th>T1: RECTANGULAR, LOW BEZEL</th>
<th>T2: RECTANGULAR, HIGH BEZEL</th>
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</thead>
<tbody>
<tr>
<td>DIMENSIONS</td>
<td>Ø 18</td>
<td>18x18</td>
<td>18x24</td>
<td>24x24</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MOUNTING DIMENSIONS

Panel Thickness 0.5 To 5.0
**DESCRIPTION**

- Detachable design for operation and contact parts, easy installation.
- Operation Part is possessed of illuminated Pushbutton function, Pushbutton function and Indicator function.
- Available Size: Rectangular 24 x 30mm
  - Square 24 x 24mm
  - Round: diameter ø 25mm
- With multiple functional bezel, the above shapes can be suitable for different panels like Mosaic panel.
- IP65 degree for water-proof, liquid and oil prevention enables the device to be used in different field equipments.
- Applied UL94 V0 high grade fire prevention plastic material.
- High bezel designed to prevent the accidental touch when installing the device.
- Can be engraved or marked with different signs on lens with many color options.
- Illuminated with incandescent, LED and fluorescent light to have a better effect.
- Easy disassembly and additional contacts are available.
- With special terminal design, it can be used in different PCBs by using soldering or socketing terminal.
- Precision design enables the device with longer mechanical life by operation under the normal environment.
- Mechanical life: Momentary 2 million times.
- Approvals: UL/CUL/VDE/CE

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>ADA16S Specifications</th>
</tr>
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<tbody>
<tr>
<td><strong>Electrical Rating</strong></td>
<td>250V AC 5A/VDE 125V AC 8A</td>
</tr>
<tr>
<td><strong>Insulation Resistance</strong></td>
<td>50mΩ(initial) according S12-2 to IEC</td>
</tr>
<tr>
<td><strong>Mechanical Life</strong></td>
<td>momentary: 2 million operations min</td>
</tr>
<tr>
<td><strong>Electrical Life</strong></td>
<td>50,000 operations min</td>
</tr>
<tr>
<td><strong>Insulation Withstand Voltage</strong></td>
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<td><strong>Actuating Force</strong></td>
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<tr>
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<tr>
<td><strong>Lighting</strong></td>
<td>LED/incandescent/neon</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
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</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
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</tr>
<tr>
<td><strong>Degree of Contamination</strong></td>
<td>class II</td>
</tr>
<tr>
<td><strong>Degree of Protection</strong></td>
<td>IP65</td>
</tr>
</tbody>
</table>
ORDER INFORMATION

MODEL FORMAT  ADA16S6 - 1 2 3 - 3 2 1 S

1. OPTIONAL FUNCTION
   M : MOMENTARY
   A : ALTERNATE

2. LENS SHAPE
   R : ROUND
   S : SQUARE
   T : RECTANGULAR

3. CONTACT ARRANGEMENT
   A : 1NO/1MG+1NO/1NC
   B : 1NO/1NC

4. LAMPS
   O : Without lamps
   A : Incandescent 6V AC/DC 200mA
   B : Incandescent 14V AC/DC 80mA
   C : Incandescent 28V AC/DC 40mA
   D : Incandescent 48V AC/DC 25mA
   E : Incandescent 60V AC/DC 20mA
   F : Neon 110V AC
   G : Neon 220V AC
   H : LED 6V DC
   J : LED 12V DC
   K : LED 24V DC
   L : Incandescent 33V AC/DC 35mA
   M : Incandescent 6V AC/DC 40mA
   N : Incandescent 14V AC/DC 40mA

5. LENS COLOR
   B : Blue
   G : Green
   O : Orange
   R : Red
   W : White
   Y : Yellow
unit: mm

<table>
<thead>
<tr>
<th>SHAPE</th>
<th>DIMENSIONS</th>
<th>COLOR</th>
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<tbody>
<tr>
<td></td>
<td>Ø 25</td>
<td>B.G.O.R.W.Y</td>
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<td>24x24</td>
<td>B.G.O.R.W.Y</td>
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<tr>
<td></td>
<td>24x30</td>
<td>B.G.O.R.W.Y</td>
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</tbody>
</table>

HEAD SHAPE

- ADA16S6-AR3-A2
- ADA16S6-MR3-A2
- ADA16S6-AS3-A2
- ADA16S6-MS3-A2
- ADA16S6-AT3-A2
- ADA16S6-MT3-A2

MOUNTING DIMENSIONS

Panel Thickness 0.5 To 5.0
DESCRIPTION

- Wider light diffusion enables this device to be seen within wider range.
- Available Size: Rectangular 18 x 24mm
  Square 18 x 18mm
- Easy assembly and disassembly.
- Color lens available: Red, Orange, Yellow, Green, Blue, White; engraving on lens or marking available on request.
- Illuminated by incandescent, LED and Fluorescent light to have a better effect.
- With both momentary and alternate functions
- IP65 degree for water-proof, liquid and oil-proof enables the device to be used in equipments of different fields.
- Applied UL94 V0 high grade fire prevention plastic material.
- Mechanical Life: Momentary 2 million times.
- Approvals: UL/CUL/VDE/CE pending

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
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<tbody>
<tr>
<td>Electrical Rating</td>
<td>250V AC 5A, 125V AC 8A</td>
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<tr>
<td>Operating Temperature</td>
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<tr>
<td>Degree of Contamination</td>
<td>Class II</td>
</tr>
<tr>
<td>Degree of Protection</td>
<td>IP65</td>
</tr>
</tbody>
</table>

PUSHBUTTON SWITCHES (OVERHANGING LENSES) ADA16S ø16
ORDER INFORMATION

MODEL FORMAT: ADA16S6-124315

1. **OPTIONAL FUNCTION**
   - M: MOMENTARY
   - A: ALTERNATE

2. **LENS SHAPE**
   - S: SQUARE
   - T: RECTANGULAR

3. **CONTACT ARRANGEMENT**
   - A: 1NO/1NC+1NO/1NC
   - B: 1NO/1NC

4. **LAMPS**
   - D: Without lamps
   - A: Incandescent 6V AC/DC 200mA
   - B: Incandescent 14V AC/DC 80mA
   - C: Incandescent 28V AC/DC 40mA
   - D: Incandescent 48V AC/DC 25mA
   - E: Incandescent 60V AC/DC 20mA
   - F: Neon 110V AC
   - G: Neon 220V AC
   - H: LED 6V DC
   - J: LED 12V DC
   - K: LED 24V DC
   - L: Incandescent 33V AC/DC 35mA
   - M: Incandescent 6V AC/DC 40mA
   - N: Incandescent 14V AC/DC 40mA

5. **LENS COLOR**
   - B: Blue
   - G: Green
   - O: Orange
   - R: Red
   - W: White
   - Y: Yellow
OPTO-ALTERNATE SHAPE

S : SQUARE
T : RECTANGULAR

CONTACT ARRANGEMENT
A : 1NO/1NC+1NO/1NC
B : 1NO/1NC

LAMPS
0 : Without lamps
A : Incandescent 6V AC/DC 200mA
B : Incandescent 14V AC/DC 80mA
C : Incandescent 28V AC/DC 40mA
D : Incandescent 48V AC/DC 25mA
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LENS COLOR
B : Blue
G : Green
O : Orange
R : Red
W : White
Y : Yellow

MODEL
ADA16S6-AS4-A1
ADA16S6-M54-A1
ADA16S6-AT4-A1
ADA16S6-MT4-A1

HEAD SHAPE

MOUNTING DIMENSIONS

Panel Thickness 0.5 To 5.0