

Bulgin's range of **high quality rocker switches** includes a huge choice of **single** and **double pole** options available in various sizes, colours, terminations, actuator types and **ratings up to 16A, 250Vac**, allowing for virtually any design configuration.

- Available types: Ultra-thin, Miniature, Twin unit, Miniature round and Standard
- Rating from 10A, 250V ac up to 20A, 277V ac
- Single & double pole variants available
- Push-on, solder & PCB terminals
- Illuminated and non-illuminated options
- High in-rush (ON-OFF types)
- Matching Indicators
- Splash resistant options
- Choice of bezel styles and sizes, panel cut-outs and actuators
- Choice of switching circuits including 3 position



# 8800 Thinline Rocker Switches

10A 250Vac

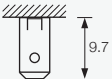
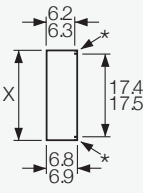
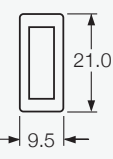
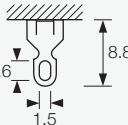
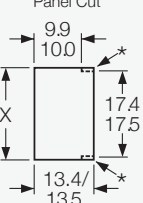
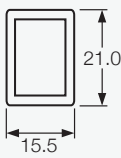
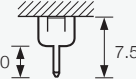


### Key Features

- Ultra thin rocker switch
- Ratings up to 15A, 250Vac
- Single and twin gang
- Panel cut out:  
Single 19.3 x 6.8  
Twin 19.3 x 13.4

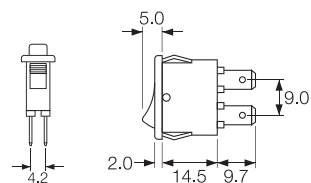
### Approvals and specifications

- 10(6)A 250Vac T100 1E4 (10,000 Operations)  
6(2)A 250Vac T100 5E4 (50,000 Operations)  
Inrush rating 10/50A 1E4 (10,000 Operations)
- UL CSA 15A 250Vac (Twin unit is 10A 250Vac)  
UL CSA 125Vac 1/2hp  
UL 100°C, file E45221, CSA file LR10990
- 3mm contact gap.

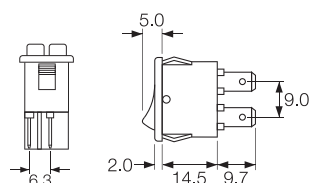
| Terminal                                                                                        | Function                                                                                                                                                                                                                                                                    | Rocker                                                                              | Body                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Body Colour                                                       | Rocker Colour                                                     |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| <b>H</b><br>  | <br>Switches are ON when pressed over terminal 1<br><br><b>8800</b><br><br>ON - OFF<br>Single pole      |                                                                                     | <b>A. Single pole</b><br><br>Panel Cut<br><br>Bezel<br><br><br>*Optional profile for orientation                                                                                                                                                                                        | <b>B</b><br>Black<br><br><b>R</b><br>Red<br><br><b>W</b><br>White | <b>B</b><br>Black<br><br><b>R</b><br>Red<br><br><b>W</b><br>White |
| <b>T</b><br> | <br>Switches are ON when pressed over terminal 1 or 3<br><br><b>8800</b><br><br>ON - OFF<br>Twin pole |  | <b>B. Single pole - Twin</b><br><br>Panel Cut<br><br>Bezel<br><br><br>*Optional profile for orientation<br><br>Panel thickness<br>0.75-1.2<br>1.25-1.99<br>2.00-3.00<br><br>Dim X<br>19.1/19.2<br>19.3/19.4<br>19.7/19.8<br><br>Cut-outs must be punched in the direction of insertion | <b>B</b><br>Black<br><br><b>R</b><br>Red<br><br><b>W</b><br>White | <b>B</b><br>Black<br><br><b>R</b><br>Red<br><br><b>W</b><br>White |
| <b>X</b><br> | <br>Switches are ON when pressed over terminal 1 or 3<br><br><b>8800</b><br><br>ON - OFF<br>Twin pole |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                   |                                                                   |

## Dimensions

8800VA (H terminals shown)



8800V/8800VA (H terminals shown)



| Legend     | Legend Colour     | Options                                                                                                                                                                                                                                         |
|------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Blank      | Blank             | <p><b>Finish</b><br/>Matt finish only.</p> <p><b>Colour</b><br/>Call sales for custom colours.<br/>A full range is available for large orders.</p> <p><b>Legend printing</b><br/>Select from the examples or call sales for custom legends.</p> |
| <b>132</b> | <b>B</b><br>Black |                                                                                                                                                                                                                                                 |
|            | <b>W</b><br>White |                                                                                                                                                                                                                                                 |

## Examples



☐ X8800VA



☐ X8800VA  
☐ T8800VA - - -



☐ X8800VA  
☐ T8800VA - - -



☐ H8800V/H8800VA  
☐ T8800V/T8800VA



☐ H8800V/H8800VA  
☐ T8800V/T8800VA

# 8500 Rocker Switches - Miniature

10A 250Vac Single & Double Pole



## Key Features

- Miniature rocker switch
- Ratings up to 15A, 250Vac
- Single & double pole in same body size
- Illuminated & non-illuminated
- Matching indicators
- Industry standard panel cut-out
- Rotary and push button actuator options
- Panel cut out: 19.3 x 12.9

## Approvals and specifications

10(6)A 250Vac T125 IE4 (non lit types)  
6(4)A 250Vac T125 5E4 (50,000 Operations)  
10(6)A 250Vac T100 (lit types)

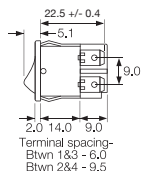
UL CSA 15A Non Ind 250Vac, 14A Ind 250Vac, 10A 277Vac  
UL CSA 250Vac 1/2hp, 125Vac 1/4hp  
UL 105°C, (non lit) file E45221, CSA file LR10990

3mm contact gap.

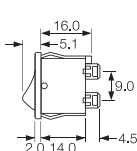
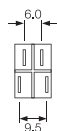
| Terminal                                                                    | Function                                                   | Rocker                                                             | Body                                                                                                                                                                                                                            | Body Colour    | Rocker Colour                                                             |
|-----------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------|
| <b>H</b><br>                                                                | <p>ON OFF Switches are ON when pressed over terminal 1</p> | <b>H</b> Slotted for custom caps<br>                               | <b>B</b> Standard body with terminal barrier<br>                                                                                                                                                                                | <b>B</b> Black | Un-Lit<br><b>B</b> Black                                                  |
| <b>K</b><br>                                                                | <b>8500</b><br>                                            | <b>R</b> Semi-rotary (not lit)<br>                                 | <b>BC</b> Body without terminal barrier<br>                                                                                                                                                                                     | <b>R</b> Red   | <b>R</b> Red<br><b>W</b> White                                            |
| <b>L</b><br><p>Right angle version of K terminal available on 8500 only</p> | <b>8503</b><br>                                            | <b>D</b> Paddle lever (not lit)<br>                                | <b>BC</b> Body without terminal barrier<br>                                                                                                                                                                                     | <b>W</b> White | Lit<br><b>A</b> Amber<br><b>G</b> Green<br><b>C</b> Clear<br><b>R</b> Red |
| <b>R</b><br>                                                                | <b>8553</b><br>                                            | <b>V</b> Curved (not lit)<br>                                      | Dimensions for snap-in fixing<br>Panel thickness      Dim X<br>0.75-1.25            19.1/19.2<br>1.25-2.00            19.3/19.4<br>2.00-3.00            19.7/19.8<br><br>Cut-outs must be punched in the direction of insertion |                |                                                                           |
| <b>T</b><br><p>Solder</p>                                                   | <b>8580</b><br>Available with H terminals only<br>         | <b>X</b> Two colour (not lit)<br>                                  |                                                                                                                                                                                                                                 |                |                                                                           |
|                                                                             |                                                            | <b>A</b> Softline lens<br>                                         |                                                                                                                                                                                                                                 |                |                                                                           |
|                                                                             |                                                            | <b>P</b> Push button operation (8500 only)<br>See drawing opposite |                                                                                                                                                                                                                                 |                |                                                                           |

## Dimensions

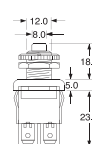
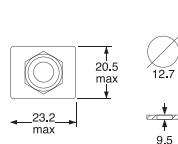
“B” body with barrier for H, T and K terminals



“BC” body w/o barrier primarily for L or R terminals (can be used for all terminals)



‘PO’ Actuator and body - push button function (8500 only)



| Insert Colour                               | Lamp Voltage             | Legend     | Legend Colour     | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------|--------------------------|------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>X</b><br>Rocker Only                     | Blank                    | Blank      | Blank             | <p><b>Finish</b><br/>Matt finish only.</p> <p><b>Colour</b><br/>Call sales for custom colours. A full range is available for large orders.</p> <p><b>Legend printing</b><br/>Select from the examples or call sales for custom legends.</p> <p><b>Lamp voltage</b><br/>Call sales for details of available voltages.</p> <p><b>Protective cover L167</b><br/>Snaps on to bodies with V or X style rockers and A lens. This reduces panel thickness by 0.8mm.</p> |
| <b>R</b><br>Red                             | <b>2</b><br>125V Neon    | <b>076</b> | <b>B</b><br>Black |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>W</b><br>White                           | <b>3</b><br>250V Neon    |            | <b>W</b><br>White |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Blank<br>Leave blank for other Rocker types | <b>7</b><br>12V Filament |            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                             | <b>8</b><br>24V Filament |            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



## Examples



▮ H8500VB ---  
▮ T8500VB ---



▮ H8550VB ---  
▮ T8550VB ---



▮ H8550HB ---  
▮ T8550HB ---



▮ H8550XB ---  
▮ T8550XB ---



H8550RB Semi-rotary  
A splash proofing option



▮ H8500PO ---  
Pushbutton option



▮ H8553VB ---  
▮ T8553VB ---



▮ H8580AB ---

# 8600 Rocker Switches - Miniature

10A 250Vac Single & Double Pole



## Key Features

- Miniature rocker switch
- Ratings up to 16A, 250Vac
- Single & double pole
- ON/OFF, C/O, biased and centre off switching
- Push on, solder and PCB terminals
- Illuminated and non illuminated
- Matching indicators
- Panel cut out single: 19.3 x 12.9 double: 19.3 x 21.9

## Approvals and specifications

10(4)A 250Vac T90 (unless noted below)

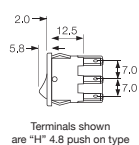
UL CSA See ratings below  
UL 65°C, file E45221, CSA file LR10990

3mm contact gap except where marked  $\mu$ .

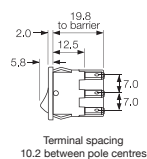
| Terminal                                                                                                                                                                                                                                    | Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Rocker                                                                                                | Body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Body Colour                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <p><b>H</b></p> <p>4.8 x 0.8</p> <p>7.4</p> <p><b>T</b></p> <p>3.5 x 0.8 Solder</p> <p>6.4</p> <p><b>X</b></p> <p>PCB 0.8Sq</p> <p>3.7</p> <p>5.3</p> <p>Double Pole switches with "X" terminals are supplied without terminal barriers</p> | <p>Approvals &amp; ratings vary with function</p> <p>ON OFF Switches are ON when pressed over terminal 3</p> <p><b>8600</b></p> <p>10(4)A<br/>16A 250V, 10A 277V<br/>1/2HP 277V, 1/4HP 125V<br/>ON - OFF</p> <p><b>8601</b></p> <p>6(1)A<br/>16A 250V, 6A 277V<br/>ON - OFF (momentary ON)</p> <p><b>8602</b></p> <p>10A<br/>6A 277V<br/>ON - OFF (momentary OFF)</p> <p><b>N/A</b></p> <p>ON - OFF<br/>Lit</p> <p><b>8610</b></p> <p>6(1)A<br/>10A 277V<br/>1/2HP 277V, 1/4HP 125V<br/>ON - ON</p> <p><b>8611</b></p> <p>6A 277V<br/>ON - ON (momentary 1 side)</p> <p><b>8620 <math>\mu</math></b></p> <p>ON - OFF - ON</p> <p><b>8630</b></p> <p>6(1)A<br/>UL E63363<br/>CSA LR29381<br/>KEMA-KUER</p> <p>Indicators</p> <p><b>8650</b></p> <p>10(4)A<br/>10A 277V<br/>1/2HP 277V, 1/4HP 125V<br/>ON - OFF</p> <p><b>8651</b></p> <p>6(1)A<br/>6A 277V<br/>ON - OFF (momentary ON)</p> <p><b>8652</b></p> <p>10(4)A<br/>6A 277V<br/>ON - OFF (momentary OFF)</p> <p><b>8653</b></p> <p>10(4)A<br/>6A 277V<br/>ON - OFF Lit</p> <p><b>8660</b></p> <p>6(1)A<br/>10A 277V<br/>1/2HP 277V, 1/4HP 125V<br/>ON - ON</p> <p><b>8661</b></p> <p>6A 277V<br/>ON - ON (momentary 1 side)</p> <p><b>8670 <math>\mu</math></b></p> <p>ON - OFF - ON</p> <p><b>N/A</b></p> | <p><b>V</b> Curved</p> <p><b>V</b> Curved (lit)</p> <p><b>F</b> Flat Indicator only (Single pole)</p> | <p><b>B</b> Single pole</p> <p>Panel cut out</p> <p>Bezel</p> <p>12.9</p> <p>15.0</p> <p>21.0</p> <p>Single Pole dimensions for snap-in fixing</p> <p>Panel thickness</p> <p>0.75-1.25</p> <p>1.25-1.99</p> <p>2.00-3.00</p> <p>Dim X</p> <p>19.1/19.2</p> <p>19.3/19.4</p> <p>19.7/19.8</p> <p><b>B</b> (Double Pole) with terminal barrier</p> <p><b>BC</b> (Double Pole) w/o terminal barrier</p> <p>Panel cut out</p> <p>Bezel</p> <p>21.9</p> <p>24.0</p> <p>21.0</p> <p>Double Pole dimensions for snap-in fixing</p> <p>Panel thickness</p> <p>0.75-1.24</p> <p>1.25-1.99</p> <p>2.00-3.00</p> <p>Dim X</p> <p>19.1/19.2</p> <p>19.3/19.4</p> <p>19.7/19.8</p> <p>Cut-outs must be punched in the direction of insertion</p> | <p><b>B</b> Black</p> <p><b>R</b> Red</p> <p><b>W</b> White</p> |

## Dimensions

Single pole



Double pole



| Rocker Colour               | Lamp Voltage             | Legend     | Legend Colour     | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------|--------------------------|------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Un-Lit<br><b>B</b><br>Black | Blank                    | Blank      | Blank             | <a href="#">Finish</a><br>Matt finish only.<br><br><a href="#">Colour</a><br>Call sales for custom colours.<br>A full range is available for large orders.<br><br><a href="#">Legend printing</a><br>Select from the examples or call sales for custom legend.<br><br><a href="#">Lamp voltage</a><br>Call sales for details of available voltages.<br><br><a href="#">Blanking plate A8634FB</a><br>Dummy unit to fill unused panel holes.<br>Single pole size only.<br><br><a href="#">Protective covers</a><br><a href="#">L167 for SP</a><br><a href="#">L180 for DP</a><br>Snap on to bodies with V rocker or F lens. This reduces panel thickness by 2.2mm.<br><br><br><br><a href="#">Single Pole options</a><br>Most switches shown can have single pole switching in double pole bodies. |
| <b>R</b><br>Red             | <b>2</b><br>125V Neon    | <b>076</b> | <b>B</b><br>Black |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>W</b><br>White           | <b>3</b><br>250V Neon    |            | <b>W</b><br>White |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Lit<br><b>A</b><br>Amber    | <b>7</b><br>12V Filament |            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>G</b><br>Green           | <b>8</b><br>24V Filament |            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>C</b><br>Clear           |                          |            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>R</b><br>Red             |                          |            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                             |                          |            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Examples



H8600VB ---  
T8600VB ---



H8600VB ---  
T8600VB ---



H8630FB ---  
T8630FB ---



H8650VB ---  
T8650VB ---



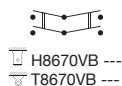
H8660VB ---  
T8660VB ---



H8653VB ---  
T8653VB ---

# 8620 & 8670 Rocker Switches

3 Positions - 10A 250Vac



## Key Features

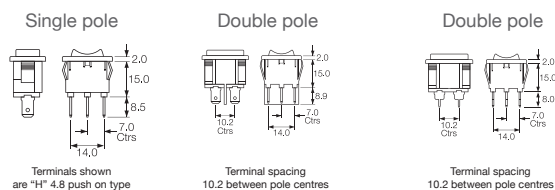
- 3 position miniature rocker switch
- Panel cut out: single: 19.3 x 12.9 double: 19.3 x 21.9
- Ratings up to 15A, 250Vac
- Single & double pole
- Centre off switching
- Push on, solder and PCB terminals
- Matching indicators

## Approvals and specifications

- 10(4)A 250Vac T90
- UL CSA 15A 277Vac (Single pole)
- UL CSA 250Vac 1/2hp (Single pole)
- UL CSA 125Vac 1/4hp (Single pole)
- UL CSA 10A 277Vac (Double pole)
- UL CSA 277Vac 1/2hp (Single & Double pole)
- UL 90°C, file E45221, CSA file LR10990
- μ contact gap.

| Terminal                                                                                                  | Function                                        | Rocker                                              | Body                                                                                                                                      | Body Colour                              | Rocker Colour                                                                 |
|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------|
| <b>H</b><br><br>4.8 x 0.8                                                                                 | <b>8620</b><br><br>ON - OFF - ON<br>Single pole | <b>V</b><br><br>Curved                              | <b>B</b> Single pole<br><br>Panel thickness<br>0.75-1.24<br>1.25-1.99<br>2.00-3.00<br>Dim X<br>19.1/19.2<br>19.3/19.4<br>19.7/19.8        | <b>B</b><br>Black                        | Lit (DP)<br><b>A</b><br>Amber                                                 |
| <b>T</b><br><br>Ø2.15<br>Solder                                                                           | <b>8670</b><br><br>ON - OFF - ON<br>Double pole | <b>H</b><br><br>Slotted for actuator<br>(8620 only) | <b>B</b> Single pole - Twin<br><br>Panel thickness<br>0.75-1.24<br>1.25-1.99<br>2.00-3.00<br>Dim X<br>19.1/19.2<br>19.3/19.4<br>19.7/19.8 | <b>R</b><br>Red<br><br><b>W</b><br>White | <b>C</b><br>Clear<br><br><b>G</b><br>Green<br><br><b>R</b><br>Red             |
| <b>X</b><br><br>PCB 0.8sq<br>Double pole switches with X terminals are supplied without terminal barriers |                                                 |                                                     | Cut-outs must be punched in the direction of insertion                                                                                    |                                          | Lit (DP)<br><b>B</b><br>Black<br><br><b>R</b><br>Red<br><br><b>W</b><br>White |

## Dimensions



| Lamp Voltage                     | Legend            | Legend Colour             | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------|-------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Blank                            | Blank             | Blank                     | <p><b>Finish</b><br/>Matt finish only.</p> <p><b>Colour</b><br/>Call sales for custom colours.<br/>A full range is available for large orders.</p> <p><b>Legend printing</b><br/>Select from the examples or call sales for custom legend.</p> <p><b>Lamp voltage</b><br/>Call sales for details of available voltages.</p> <p><b>Blanking plate A8634FB</b><br/>Dummy unit to fill unused panel holes.<br/>Single pole size only.</p> <p><b>Protective covers</b><br/>L167 for SP<br/>L180 for DP<br/>Snap on to bodies with V rocker or F lens. This reduces panel thickness by 2.2mm.</p>  <p><b>Single Pole options</b><br/>Most switches shown can have single pole switching in double pole bodies.</p> |
| <p><b>2</b><br/>125V Neon</p>    | <p><b>076</b></p> | <p><b>B</b><br/>Black</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p><b>3</b><br/>250V Neon</p>    |                   | <p><b>W</b><br/>White</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p><b>7</b><br/>12V Filament</p> |                   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p><b>8</b><br/>24V Filament</p> |                   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

# 1250 Rocker Switches

10A 250Vac



C1250AP ---

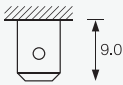
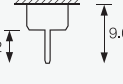


C1250AN ---



### Key Features

- Standard rocker switch
- Double pole in single pole body
- Snap in or sub panel mount
- Integral terminal barrier
- Push on or PCB terminals
- Panel cut out: 27.2 x 12.4 (snap in) 26.3 x 12.4 (sub panel mount)

| Terminal                                                                                                                   | Function                                                                                                                                                                                                                                                                                    | Rocker                                                                                                                    | Body                                                                                                                                                               | Body Colour                                | Rocker Colour                              |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8               | <br>On when pressed over terminal 1<br><b>1250</b><br><br>ON - OFF<br>Double pole<br>Poles are 9.0mm between centres. | <b>A</b> Curved<br><br>Shown in N body | <b>N</b><br>Panel cut-out<br>Sub-panel<br>Facia<br>Bezel<br>Panel thickness<br>0.75-1.24<br>1.25-1.99<br>2.00-3.00<br>Dim X<br>26.1/26.2<br>26.3/26.4<br>26.7/26.8 | <b>B</b><br>Black<br><br><b>W</b><br>White | <b>B</b><br>Black<br><br><b>W</b><br>White |
| <b>X</b><br><br>PCB 0.8sq (N body only) | <br>On when pressed over terminal 1<br><b>1250SP</b><br><br>ON - OFF<br>Single pole                                   | <br>Shown in P body                    | <b>P</b><br>Panel cut out<br>Bezel<br>Panel thickness<br>0.75-3.00                                                                                                 |                                            | <b>G</b><br>Grey                           |

Cut-outs must be punched in the direction of insertion

## Approvals and specifications



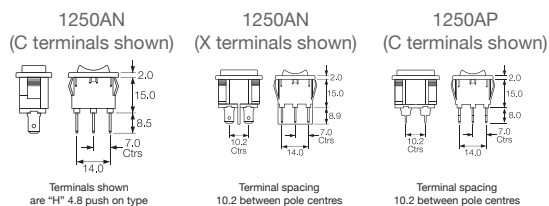
10(6)A 250Vac T100  
6A 400Vac T100  
1A 30Vdc



UL CSA 10A 250Vac  
UL CSA 16A 250Vac Resistive  
UL CSA 125Vac 1/2hp  
UL CSA 1A 30Vdc  
UL 100°C, file E45221, CSA file LR10990

3mm contact gap

## Dimensions



| Legend     | Legend Colour                                       | Options                                                                                                                                                                                                                                        |
|------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Blank      | Blank                                               | <p><b>Finish</b><br/>Matt finish only.</p> <p><b>Colour</b><br/>Call sales for custom colours.<br/>A full range is available for large orders.</p> <p><b>Legend printing</b><br/>Select from the examples or call sales for custom legend.</p> |
| <b>085</b> | <p><b>B</b><br/>Black</p> <p><b>W</b><br/>White</p> |                                                                                                                                                                                                                                                |

# 6000 SP Splash Resistant Rocker Switches

16A 250Vac



## Key Features

- Ratings up to 20A, 277Vac
- Positive switch action
- Distinctive styling
- Illuminated & nonilluminated
- Single pole
- Panel cut out: 30.1 x 11.1mm

## Approvals and specifications

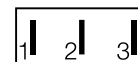
European 16(4)A 250Vac T125, 10A 400Vac T125

UL = 20A 277Vac, 1 1/2HP 250Vac 1HP 125Vac  
CSA = 20A 277Vac, 1HP 125Vac, 1/2HP 125Vac

3mm contact gap with Positive Break switching.  
Call factory for IP details.

## Vary with Function

Approvals & ratings vary with function  
ON OFF Switches - ON when pressed  
over terminals 3.



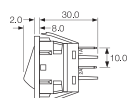
| Terminal                                                                    | Function                                                                                                                                                                                                               | Rocker                                                               | Body                                                                                                                                 | Body Colour                                | Rocker Colour                                                                                                                                                                                       | Lamp Voltage                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8                                                   | <b>6000</b><br><br>ON - OFF<br><br><b>6001</b><br><br>ON - OFF (momentary ON)                                                                                                                                          | <b>A</b><br>Softline Matt<br>                                        | <b>L</b><br>Panel cut-out ** Bezel<br><br>30.0/30.1, 11.0/11.1, 31.5, 14.0<br>Cut-outs must be punched in the direction of insertion | <b>B</b><br>Black<br><br><b>W</b><br>White | Lit (DP)<br><br><b>A</b><br>Amber<br><br><b>C</b><br>Clear<br><br><b>G</b><br>Green<br><br><b>R</b><br>Red<br><br>Lit (DP)<br><br><b>B</b><br>Black<br><br><b>R</b><br>Red<br><br><b>W</b><br>White | Blank<br><br><b>2</b><br>125V Neon<br><br><b>3</b><br>250V Neon<br><br><b>5</b><br>12Vdc LED (P Rocker)<br><br><b>6</b><br>24Vdc LED (P Rocker)<br><br><b>7</b><br>12V Filament<br><br><b>8</b><br>24Vdc Filament |
| <b>H</b><br><br>4.8 x 0.8                                                   | <b>6002</b><br><br>ON - OFF (momentary OFF)<br><br><b>6003</b><br><br>ON - OFF Lit                                                                                                                                     | <b>A</b><br>Softline Matt<br><br><br><b>P</b><br>Lit window Matt<br> |                                                                                                                                      |                                            |                                                                                                                                                                                                     |                                                                                                                                                                                                                   |
| <b>S</b><br><br>9.7<br>Screw & Clamp<br>N/A for assemblies with 3 terminals | <b>6008</b><br><br>ON - OFF Lit (Unswitched neutral)<br><br><b>6009</b><br><br>ON - OFF (momentary ON) Lit (Unswitched neutral)<br><br><b>6010</b><br><br>ON - ON<br><br><b>6011</b><br><br>ON - ON (momentary 1 side) |                                                                      |                                                                                                                                      |                                            |                                                                                                                                                                                                     |                                                                                                                                                                                                                   |

## Integral Splash Resistance



Current carrying parts are protected from moisture. Droplets which may enter the switch are channelled out through ports in the switch body. For IP65 see options below

## Dimensions



Panel thickness  
L 0.75 to 2.5mm  
\*\* For cut-out details on momentary switches call sales

| Legend      | Legend Colour     | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Blank       | Blank             | <b>G74</b><br>Protective Cover                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>1223</b> | <b>B</b><br>Black | <p><b>Finish</b><br/>Matt is standard.</p> <p><b>Colour</b><br/>Call sales for custom colours. A full range is available for large orders.</p> <p><b>Legend printing</b><br/>Select from the examples or call sales for custom legends.</p> <p><b>Lamp voltage</b><br/>Call sales for details.</p> <p><b>Protective cover</b><br/>A snap on cover is available (add G after body code), this reduces panel thickness by 2mm.</p>  <p>Panel sealing washer W46 is available, this reduces panel thickness by 1.2mm.</p> <p>Covers are not suitable for momentary types. For all options call the factory</p> |
|             | <b>W</b><br>White |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Examples



C6000AL - - -



C6000AL - - -



C6010AL - - -



C6003AL - - -



C6003PL - - -



C6030AL - - -

# 6050 DP Splash Resistant Switches

& Twin Switches - 16A 250Vac



## Key Features

- Ratings up to 20A, 277V ac
- Positive switch action
- Distinctive styling
- Illuminated & non-illuminated
- Double pole
- DC LED Illumination Available
- Panel cut out: 30.1 x 22.2mm

## Approvals and specifications

European 16(4)A 250Vac T125, 10A 400Vac T125

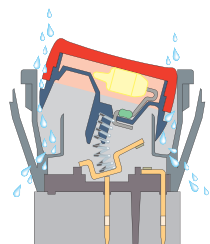
UL CSA (except 6054 & 6055 Switches)  
20A 277Vac, 250Vac 11/2hp, 125Vac 1hp

UL 100°C, file E45221, CSA file LR10990

3mm contact gap with Positive Break switching.

| Terminal                                                             | Function                                                                                                                                                                                                                                                                                  | Rocker                                        | Body                                                                                                                                  | Body Colour                                                                          |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8                                            | <b>6050</b><br><br>ON - OFF<br><br><b>6051</b><br><br>ON - OFF (momentary ON)                                                                                                                                                                                                             | <b>A</b><br>Softline Matt<br>                 | <b>L</b><br>Double Pole<br>Panel cut-out ** Bezel<br><br>22.1/22.2 30.0/30.1 25.0 31.5 R2.0                                           | Lit (DP)<br><br><b>A</b><br>Amber<br><br><b>C</b><br>Clear                           |
| <b>H</b><br><br>4.8 x 0.8                                            | <b>6052</b><br><br>ON - OFF (momentary OFF)<br><br><b>6053</b><br><br>ON - OFF Lit                                                                                                                                                                                                        | <b>A</b><br>Softline Matt<br>                 | <b>L</b><br>Twin units<br>Contact sales for information on splash resistance and IP ratings<br><br>22.1/22.2 30.0/30.1 25.0 31.5 R2.0 | <b>G</b><br>Green<br><br><b>R</b><br>Red                                             |
| <b>S</b><br><br>Screw & Clamp<br>N/A for assemblies with 3 terminals | <b>6054</b><br><br>ON - OFF (momentary ON) Lit<br><br><b>6055</b><br><br>ON - OFF (Single pole) (momentary ON) Lit<br><br><b>6056</b><br><br>ON - OFF (Single pole) Isolated light<br><br><b>6057</b><br><br>ON - OFF Isolated light<br><br><b>6058</b><br><br>ON - OFF (Single pole) Lit | <b>P</b><br>Lit window Matt<br><br>Lit window |                                                                                                                                       | Un-Lit (DP)<br><br><b>B</b><br>Black<br><br><b>R</b><br>Red<br><br><b>W</b><br>White |

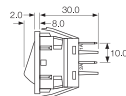
## Integral Splash Resistance



Current carrying parts are protected from moisture. Droplets which may enter the switch are channelled out through ports in the switch body.

For IP65 see options below

## Dimensions



Panel thickness

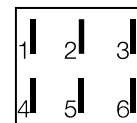
L 0.75 to 2.5mm

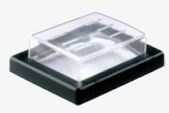
\*\* For cut-out details on momentary switches call sales

Terminal spacing - Poles 10.5 between centres

## Vary with Function

Approvals & ratings vary with function  
ON OFF Switches - ON when pressed over terminals 3 & 6.



| Rocker Colour     | Lamp Voltage                     | Legend      | Legend Colour     | Options                                                                                                                                                                                                     |
|-------------------|----------------------------------|-------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>B</b><br>Black | Blank                            | Blank       | Blank             | <b>G74</b><br>Protective Cover                                                                                                                                                                              |
| <b>R</b><br>Red   | <b>2</b><br>125V Neon            | <b>1223</b> | <b>B</b><br>Black | <a href="#">Finish</a><br>Matt is standard.                                                                                                                                                                 |
| <b>W</b><br>White | <b>3</b><br>250V Neon            |             | <b>W</b><br>White | <a href="#">Colour</a><br>Call sales for custom colours.<br>A full range is available for large orders.                                                                                                     |
|                   | <b>5</b><br>12Vdc LED (P Rocker) |             |                   | <a href="#">Legend printing</a><br>Select from the examples or call sales for custom legends.                                                                                                               |
|                   | <b>6</b><br>24Vdc LED (P Rocker) |             |                   | <a href="#">Protective cover</a><br>The 6050 series is a water through design. For a higher level of sealing, a snap on cover is available (add G after body code).<br>This reduces panel thickness by 1mm. |
|                   | <b>7</b><br>12V Filament         |             |                   |                                                                                                                        |
|                   | <b>8</b><br>24Vdc Filament       |             |                   | Panel sealing washer W42 is available. This reduces panel thickness by 1.00mm. Covers are not suitable for momentary types.                                                                                 |
|                   |                                  |             |                   | <a href="#">IP Ratings</a><br>Call the sales for details.                                                                                                                                                   |
|                   |                                  |             |                   | <a href="#">Terminal Link P1067</a><br>connects the poles of a double pole switch or twin unit.                                                                                                             |
|                   |                                  |             |                   | # Mounting orientation may affect IP rating.                                                                                                                                                                |

## Examples



C6050AL - - -



C6053AL - - -



C6053PL - - -



C6000A/C6000AL



C6003P/C6003PL



C6003P/C6030AL

# 1500 Standard & 1300 High Inrush Switches

150A to EN61058-1 and 16A 250Vac



## Key Features

- Standard rocker switch
- Non-illuminated
- 150A inrush
- Choice of switching circuits including 3 position
- Choice of bezel styles
- Choice of panel cut outs
- Matching indicator
- Single pole
- Splash resistant option
- DC LED Illumination Available for "P" Rocker
- Panel cut out 'A' style: 27.3 x 12.3mm

## Approvals and specifications

1500 Series 16(4)A 250Vac T125

UL CSA 16A Non Ind 250Vac, (2 posn) 250Vac 1hp, 125Vac 1/2hp, (3 posn) 250Vac 1/2hp, 125Vac 1/4hp  
1330 36Vdc 14A  
1350 72 Vdc 7A  
1500 & 1510 14 Vdc 10A  
UL 85°C, file E45221, CSA file LR10990

### In house test:

10A 24Vdc—Indicative rating only

1300 series 16(6)A 250Vac T125 5E4 (50,000 Ops.)  
150A Inrush to EN61058-1

| Terminal     | Function                                                                                          | Rocker       | Body                                                                        | Finish                        | Body Colour       | Rocker Colour     |
|--------------|---------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------|-------------------------------|-------------------|-------------------|
| <b>C</b><br> | <b>Standard 1500</b><br>ON - OFF                                                                  | <b>A</b><br> | Panel cut-out<br>Cut-outs must be punched in the direction of insertion<br> | <b>M</b><br>Matt              | <b>B</b><br>Black | Un-Lit            |
| <b>H</b><br> | <b>1501</b><br>HP rating N/A<br>ON - OFF (momentary ON)                                           | <b>B</b><br> |                                                                             | <b>G</b><br>Gloss             | <b>R</b><br>Red   | <b>B</b><br>Black |
| <b>K</b><br> | <b>1502</b><br>HP rating N/A<br>ON - OFF (momentary OFF)                                          | <b>H</b><br> |                                                                             | Applies to both Rocker & Body | <b>W</b><br>White | <b>R</b><br>Red   |
| <b>T</b><br> | <b>1510 μ</b><br>HP rating N/A<br>ON - ON                                                         | <b>V</b><br> |                                                                             |                               |                   | <b>W</b><br>White |
| <b>U</b><br> | <b>1511 μ</b><br>HP rating N/A<br>ON - ON (momentary 1 side)                                      | <b>W</b><br> |                                                                             |                               |                   | Lit               |
| <b>X</b><br> | <b>1512 μ</b><br>HP rating N/A<br>H terminal rated T100 only<br>ON - OFF - ON (momentary 1 side)  | <b>X</b><br> |                                                                             |                               |                   | <b>A</b><br>Amber |
|              | <b>1520 μ</b><br>125V & 250V 1/2 HP<br>H terminal rated T100 only<br>ON - OFF - ON                | <b>F</b><br> |                                                                             |                               |                   | <b>C</b><br>Clear |
|              | <b>1521 μ</b><br>HP rating N/A<br>H terminal rated T100 only<br>ON - OFF - ON (momentary 1 side)  | <b>A</b><br> |                                                                             |                               |                   | <b>G</b><br>Green |
|              | <b>1522 μ</b><br>HP rating N/A<br>H terminal rated T100 only<br>ON - OFF - ON (momentary 2 sides) |              |                                                                             |                               |                   | <b>R</b><br>Red   |
|              | <b>0430</b><br>HP rating N/A<br>H terminal rated T100 only<br>ON - OFF                            |              |                                                                             |                               |                   |                   |

## Dimensions

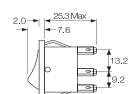
UL CSA 20A 250Vac 1hp, 125Vac 1/2hp  
UL 85°C, file E45221, CSA file LR10990

### In house test:

20A 24Vdc — Indicative rating only

BioCote antimicrobial additive. Independently verified to ISO22196:2007.

3mm contact gap except if marked µ.



### Panel thickness

A, Q 0.75 to 3.3mm  
L, B, T 0.75 to 2.5mm  
R 0.75 to 3.0mm

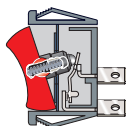
\* For cut-out details on momentary switches call sales

## Splash Resistance

### 1500 W and B splash resistant options

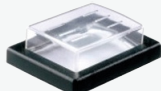
Feather edge seals and a close fitting collar protect current carrying parts from moisture.

B option has Hytrel collar/seals for enhanced protection.



### 1300 High inrush, positive break switching

The 1300 series mechanism ensures contact welds formed at switch-on are positively separated by the plunger tube acting directly on the step in the moving contact.

| Lamp Voltage               | Insert Colour     | Legend      | Legend Colour     | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------|-------------------|-------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Blank                      | Blank             | Blank       | Blank             | <p><b>Finish</b><br/>Matt is standard.</p> <p><b>Colour</b><br/>Call sales for custom colours. A full range is available for large orders.</p> <p><b>Legend printing</b><br/>Select from the examples or call sales for custom legends.</p> <p><b>Lamp voltage</b><br/>Call sales for details.</p> <p><b>Blanking plates A0434 - -</b><br/>Dummy units to fill unused panel holes.</p> <p><b>Protective cover</b><br/>Snaps on to A, L, Q or T bodies (add G after body code in cat no.), this reduces panel thickness by 1mm.</p>  <p>Panel sealing washer W46 is available for the same body sizes, this reduces panel thickness by a further 0.8mm. Covers are not suitable for momentary types.</p> <p>For all options call sales.</p> |
| <b>2</b><br>125V Neon      | <b>R</b><br>Red   | <b>602A</b> | <b>B</b><br>Black |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>3</b><br>250V Neon      | <b>W</b><br>White |             | <b>W</b><br>White |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>7</b><br>12V Filament   |                   |             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>8</b><br>24Vdc Filament |                   |             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Examples



C1500AR - - -  
T1500AR - - -



C1500AL - - -  
T1500AL - - -



C1500XL - - -  
T1500XL - - -



C1510AL - - -  
T1510AL - - -



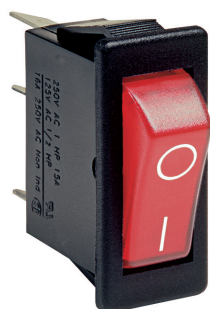
C1520AL - - -  
T1520AL - - -



C0430AL - - -  
T0430AL - - -

# 5500 Lit Rocker Series

10A 250Vac



## Key Features

- Standard rocker switch
- Illuminated
- Choice of switching circuits
- Choice of bezel styles
- Choice of panel cut outs
- Matching indicator
- Single pole
- Splash resistant option
- Panel cut out 'A' style:

## Approvals and specifications

16(4)A 250Vac T85  
10(3)A 250Vac T100, (12A 250Vac T125 for P rocker only)

UL CSA 15A 250Vac, CSA 16A Non Ind 250Vac  
UL CSA 250Vac 1hp, 125Vac 1/2hp  
UL 85°C, file E45221, CSA file LR10990

μ contact gap.

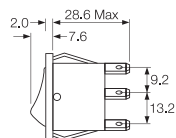
For Twin units repeat the order details for both the left and right sides.

| Terminal                       | Function                                                                                                                                           | Rocker                                 | Body                                         | Body Colour       | Rocker Colour                                                                                         |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8      | Approvals & ratings vary with function<br>ON OFF Switches<br>- ON when pressed over terminal 3<br><br><b>5500 μ</b><br><br>ON - OFF<br>Single pole | <b>A</b><br>Softline (Matt only)<br>   | <b>A</b> Panel Cut - outs<br><br>Bezel<br>   | <b>B</b><br>Black | Un-Lit<br><br><b>B</b><br>Black                                                                       |
| <b>H</b><br><br>4.8 x 0.8      | <b>5503 μ</b><br><br>ON - OFF<br>Lit<br>Switched neutral                                                                                           | <b>P</b><br>Lit window (Matt only)<br> | <b>B</b><br><br><b>L</b><br>                 | <b>W</b><br>White | <b>R</b><br>Red<br><br><b>W</b><br>White                                                              |
| <b>T</b><br><br>Ø2.1<br>Solder | <b>5508 μ</b><br><br>ON - OFF<br>Lit<br>Unswitched neutral                                                                                         |                                        | <b>Q</b><br><br><b>R</b><br><br><b>T</b><br> |                   | Lit<br><br><b>A</b><br>Amber<br><br><b>C</b><br>Clear<br><br><b>G</b><br>Green<br><br><b>R</b><br>Red |

## Dimensions

### Panel thickness

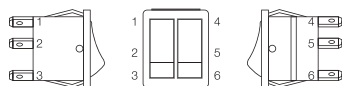
|                |               |
|----------------|---------------|
| <b>A, Q</b>    | 0.75 to 3.3mm |
| <b>L, B, T</b> | 0.75 to 2.5mm |
| <b>R</b>       | 0.75 to 3.0mm |



### Twin units

Two single switches or a switch and an indicator light can be assembled side by side in one double pole body.

For 5500 range panel cut-out details (L, B and T) call sales.



Terminal spacing -  
Poles 10.8 between centres (twin units)

For twin units the first set of order format details refer to the left hand unit, when looking at the front of the assembly.  
(This has terminal numbers 1, 2 & 3)

| Lamp Voltage                                     | Legend      | Legend Colour     | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------|-------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Blank                                            | Blank       | Blank             | <p><b>Finish</b><br/>Matt is standard.</p> <p><b>Colour</b><br/>Call factory for custom colours.<br/>A full range is available for large orders.</p> <p><b>Legend printing</b><br/>Select from the examples or call factory for custom legends.</p> <p><b>Lamp voltage</b><br/>Call factory for details.</p> <p><b>Blanking plate A0434 - - (SP) A0494 - - (DP)</b><br/>Dummy units to fill unused panel holes.</p> <p><b>Protective cover</b><br/>Snaps on to A, L, Q or T bodies (add G after body in cat no.), this reduces panel thickness by 1.00mm.</p>  <p>Panel sealing washers W46 (Single Pole) and W42 (Double Pole) are available for these body types, this reduces panel thickness by 2mm.</p> <p>For all options call the factory.</p> |
| <b>2</b><br>125V Neon                            | <b>602A</b> | <b>B</b><br>Black |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>3</b><br>250V Neon                            |             | <b>W</b><br>White |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>5</b><br>12Vdc LED (P Rocker)<br>IF = 20-30mA |             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>6</b><br>24Vdc LED (P Rocker)<br>IF = 20-30mA |             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>7</b><br>12V Filament                         |             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>8</b><br>24Vdc Filament                       |             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Examples



C5503AL - - -



C5500AL - - -



C5503PL - - -



C5503A/C5430AL



C5503A/C5503AL



C5503P/C5503PL

# 1500 Twin Units Switches and Indicators

16A 250Vac



## Key Features

- Twin unit rocker switch
- Choice of switching circuits including 3 position
- Push-on, solder and PCB terminals
- Choice of bezel styles
- Choice of panel cut outs
- Matching indicator
- Single pole switches
- Splash resistant option
- Panel cut out 'A' style: 27.2 x 22.3mm

## Approvals and Specifications

16(4)A 250Vac T125

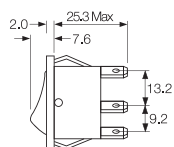
UL CSA 16A 250Vac  
UL CSA (2 posn) 250Vac 1hp, 125Vac  
1/2hp, (3 posn) 250 Vac  
1/2hp, 125Vac 1/4hp  
UL 85°C, file E45221, CSA file LR10990

For versions with High Inrush or for 50,000 operations,  
3mm contact gap except where marked  $\mu$ .

| Terminal                  | Function                                                                                          | Rocker                               | Body                                                                                                    | Finish                        | Body Colour       | Rocker Colour                   |
|---------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------|-------------------|---------------------------------|
| <b>C</b><br><br>6.3 x 0.8 | Approvals & ratings vary with function ON OFF Switches - ON when pressed over terminal 1 or 4<br> | <b>A</b><br>Softline (Matt only)<br> | Panel Cut - outs      Bezel<br><b>A</b><br><br>22.3/22.4      27.2/27.3      30.2/25.0<br>Gloss or Matt | <b>M</b><br>Matt              | <b>B</b><br>Black | Un-Lit<br><br><b>B</b><br>Black |
| <b>H</b><br><br>4.8 x 0.8 | <b>1500</b><br><br>ON - OFF                                                                       | <b>B</b><br>Softline (Matt only)<br> | <b>B</b><br><br>22.1/22.2      30.0/30.1      33.4/25.0<br>Matt only                                    | <b>G</b><br>Gloss             | <b>W</b><br>White | <b>R</b><br>Red                 |
| <b>T</b><br><br>Solder    | <b>1510 <math>\mu</math></b><br><br>ON - ON                                                       | <b>W</b><br>Softline (Matt only)<br> | <b>L</b><br><br>22.1/22.2      30.0/30.1      32.0/25.0<br>Matt only                                    | Applies to both Rocker & Body |                   | <b>W</b><br>White               |
| <b>K</b><br><br>2.0 x 1.2 | <b>1520 <math>\mu</math></b><br><br>ON - OFF - ON                                                 | <b>X</b><br>Softline (Matt only)<br> | <b>Q</b><br><br>22.3/22.4      28.2/28.3      30.2/25.0<br>Gloss or matt                                |                               |                   | Lit<br><br><b>A</b><br>Amber    |
| <b>X</b><br><br>4.0 x 1.2 | <b>0430</b><br><br>Indicator                                                                      | <b>A</b><br>Softline (Matt only)<br> | <b>R</b><br><br>23.0/25.4      28.4/28.5      33.2/28.9<br>Matt only                                    |                               |                   | <b>C</b><br>Clear               |
|                           |                                                                                                   |                                      | <b>T</b><br><br>22.3/22.4      28.2/28.3      30.2/25.0<br>Matt only                                    |                               |                   | <b>G</b><br>Green               |
|                           |                                                                                                   |                                      |                                                                                                         |                               |                   | <b>R</b><br>Red                 |

## Dimensions

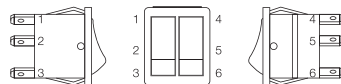
**Panel thickness**  
**A,Q** 0.75 to 3.3mm  
**L,B,T** 0.75 to 2.5mm  
**R** 0.75 to 3.0mm



Call sales for terminal spacing details

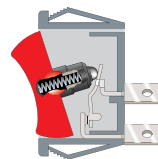
## Twin units

Two single switches or a switch and an indicator light can be assembled side by side in one double pole body.



For twin units the first set of order format details refer to the left hand unit, when looking at the front of the assembly.  
 (This has terminal numbers 1, 2 & 3)

## Splash Resistant



Feather edge seals and a close fitting collar protect current carrying parts from moisture.

B option has Hytrel collar/seals for enhanced protection.

| Insert Colour     | Lamp Voltage                     | Legend      | Legend Colour     | Options                                                                                                   |
|-------------------|----------------------------------|-------------|-------------------|-----------------------------------------------------------------------------------------------------------|
| Blank             | Blank                            | Blank       | Blank             | <a href="#">Finish</a><br>Matt is standard.                                                               |
| <b>R</b><br>Red   | <b>2</b><br>125V Neon            | <b>602A</b> | <b>B</b><br>Black | <a href="#">Colour</a><br>Call factory for custom colours.<br>A full range is available for large orders. |
| <b>W</b><br>White | <b>3</b><br>250V Neon            |             | <b>W</b><br>White | <a href="#">Legend printing</a><br>Select from the examples or call factory for custom legends.           |
|                   | <b>5</b><br>12Vdc LED (P Rocker) |             |                   | <a href="#">Lamp voltage</a><br>Call factory for details.                                                 |
|                   | <b>6</b><br>24Vdc LED (P Rocker) |             |                   |                                                                                                           |
|                   | <b>7</b><br>12V Filament         |             |                   |                                                                                                           |
|                   | <b>8</b><br>24Vdc Filament       |             |                   |                                                                                                           |

## Examples



C1500A/C1500AL



C1500A/C0430AL



C1500X/C1500XL



C1520A/C1510AL



C1500A/C1520AL



C0430A/C0430AL

# 1550 Standard and 1350 High Inrush

150A to EN61058-1 and 16A 250Vac



## Key Features

- Standard rocker switch
- 1350/53 high inrush
- Choice of switching circuits including 3 position
- Push-on, solder and PCB terminals
- Choice of bezel styles
- Choice of panel cut outs
- Matching indicator
- Double pole
- Splash resistant option
- Panel cut out 'A' style: 27.2 x 22.3mm

## Approvals and specifications

1550 Series 16(4)A 250Vac T125

UL CSA 16A 250Vac, (2 posn) 250Vac 1hp, 125Vac 1/2hp, 1350 72 Vdc 7A (3 posn) 250 Vac 1/2hp, 125Vac 1/4hp. UL 85°C, file E45221, CSA file LR10990.

### In house test:

10A 24Vdc—Indicative rating only. NB Types fitted with Neon will not illuminate for low DC voltage applications.

1350 series 16(4)A 250Vac T85 1E4 (10,000 Ops.)  
1330 series 16(6)A 250Vac T125 5E4 (50,000 Ops.)  
150A Inrush to EN61058-1.

| Terminal                                                | Function                                                                                              |                                                         | Rocker                                                                   | Body                                                                                                                                         |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8                               | <b>Standard 1550</b><br><br>ON - OFF                                                                  | <b>0480</b><br>X terminal N/A                           | <b>A</b><br>Softline Matt<br>                                            | Panel cut-out Bezel<br>Cut-outs must be punched in the direction of insertion<br><br><b>A</b> 27.2 27.3 22.3/22.4 30.2 25.0<br>Gloss or Matt |
| <b>H</b><br><br>4.8 x 0.8*                              | <b>1551</b><br>HP rating N/A<br><br>ON - OFF (momentary ON)                                           | <b>High Inrush 1350</b><br>Not W, X or B rocker<br>     | <b>B</b><br>Splash resistant Softline<br>                                | <br><b>B</b> 30.0 30.1 22.1/22.2 33.4 25.0<br>Matt only                                                                                      |
| <b>K</b><br><br>2.8 x 0.8*                              | <b>1552</b><br>HP rating N/A<br><br>ON - OFF (momentary OFF)                                          | <b>1353</b><br>Not W, X or B rocker<br><br>ON - OFF Lit | <b>V</b> Curved<br>Matt or Gloss<br><br>Gloss only Lit (not momentary)   | <br><b>L</b> 30.0 30.1 22.1/22.2 32.0 25.0<br>Matt only                                                                                      |
| <b>T</b><br><br>Ø2.1<br>Solder                          | <b>1553</b><br>Not W, X or B rocker<br><br>ON - OFF Lit                                               |                                                         | <b>W</b> Splash resistant Curved<br>                                     | <br><b>Q</b> 28.2 28.3 22.3/22.4 30.2 25.0<br>Gloss or matt                                                                                  |
| <b>U</b><br><br>Ø2.1<br>Right angle "T" solder terminal | <b>1560 µ</b><br><br>ON - ON                                                                          |                                                         | <b>P</b> Lit window Matt<br><br>Lit (not momentary)                      | <br><b>R</b> 28.4 28.5 23.0/25.4 33.2 28.9<br>Matt only                                                                                      |
| <b>X</b><br><br>Ø2.1<br>PCB 0.8Sq*                      | <b>1561 µ</b><br>HP rating N/A<br><br>ON - ON (Momentary 1 Side)                                      |                                                         | <b>X</b> Two colour Matt<br><br>(ON OFF only - not momentary)            | <br><b>T</b> 28.2 28.3 22.3/22.4 30.2 25.0<br>Matt only                                                                                      |
|                                                         | <b>1562 µ</b><br>In house tests only<br><br>2 Circuit ON - ON                                         |                                                         | <b>R</b> Round<br>                                                       |                                                                                                                                              |
|                                                         | <b>1570 µ</b><br>125V & 250V 1/2 HP<br>H terminal rated T100 only<br>H terminal rated T100 only       | <br>ON - OFF - ON                                       | <b>F</b> Flat Lens Gloss (0480)<br>                                      |                                                                                                                                              |
|                                                         | <b>1571 µ</b><br>HP rating N/A<br>H terminal rated T100 only<br><br>ON - OFF - ON (momentary 1 side)  |                                                         | <b>A</b> Softline lens Matt (0480 only) as F but with raised profile<br> |                                                                                                                                              |
|                                                         | <b>1572 µ</b><br>HP rating N/A<br>H terminal rated T100 only<br><br>ON - OFF - ON (momentary 2 sides) |                                                         |                                                                          |                                                                                                                                              |

## Approvals and specifications (continued)

**UL** CSA 20A 250Vac 1hp, 125Vac 1/2hp.  
UL 72Vdc 7A, 36Vdc 14A.  
UL 85°C, file E45221, CSA file LR10990.

### In house test:

20A 24Vdc—Indicative rating only

3mm contact gap except if marked  $\mu$ .

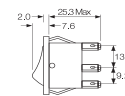
## Splash Resistance



### 1300 High inrush, positive break switching

The 1300 series mechanism ensures contact welds formed at switch-on are positively separated by the plunger tube acting directly on the step in the moving contact.

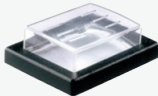
## Dimensions



### Panel thickness

A,Q 0.75 to 3.3mm  
L,B,T 0.75 to 2.5mm  
R 0.75 to 3.0mm

\* For cut-out details on momentary switches call sales

| Finish                                                    | Body Colour       | Rocker Colour               | Insert Colour     | Lamp Voltage                     | Legend            | Legend Colour     | Options                                                                                                                                |
|-----------------------------------------------------------|-------------------|-----------------------------|-------------------|----------------------------------|-------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>M</b><br>Matt                                          | <b>B</b><br>Black | Un-Lit<br><b>B</b><br>Black | <b>—</b><br>Blank | <b>—</b><br>Blank                | <b>—</b><br>Blank | <b>—</b><br>Blank | <a href="#">Finish</a><br>Matt is standard.                                                                                            |
| <b>G</b><br>Gloss<br><br>Applies to both<br>Rocker & Body | <b>W</b><br>White | <b>R</b><br>Red             | <b>R</b><br>Red   | <b>2</b><br>125V Neon            | <b>602A</b>       | <b>B</b><br>Black | <a href="#">Colour</a><br>Call sales for custom colours.<br>A full range is available for large orders.                                |
|                                                           |                   | <b>W</b><br>White           |                   | <b>3</b><br>250V Neon            |                   |                   | <a href="#">Legend printing</a><br>Select from the examples or call sales for custom legends.                                          |
|                                                           |                   | Lit<br><b>A</b><br>Amber    |                   | <b>5</b><br>12Vdc LED (P Rocker) |                   |                   | <a href="#">Lamp voltage</a><br>Call sales for details.                                                                                |
|                                                           |                   | <b>G</b><br>Green           |                   | <b>6</b><br>24Vdc LED (P Rocker) |                   |                   | <a href="#">Blanking plates A0494</a><br>Dummy units to fill unused panel holes.                                                       |
|                                                           |                   | <b>C</b><br>Clear           |                   | <b>7</b><br>12V Filament         |                   |                   | <a href="#">Protective cover</a><br>Snaps on to A, L, Q or T bodies (add G after body in cat no). This reduces panel thickness by 1mm. |
|                                                           |                   | <b>R</b><br>Red             |                   | <b>8</b><br>24Vdc Filament       |                   | <b>W</b><br>White |                                                   |

Examples

## Examples



C1350AL ---



C1550XL ---



C1553PL ---



C1553RA ---  
Shown with M614  
bezel cover



Optional snap-in  
M441 barrier



C1553AA with M616  
guard Cut-out  
22.0/22.1 x 29.4/29.5  
Guard accepts "A"  
body only



C0480RA ---  
Shown with  
M614 bezel  
cover



C0480AL ---

Panel sealing washer W42 is available for the above body sizes. This reduces panel thickness by a further 1.00mm.  
Covers are not suitable for momentary types.

For all options call sales.

# 1550 Standard & 1350 High Inrush Switches

150A to EN61058-1 and 16A 250Vac/250Vac



## Key Features

- Standard rocker switch
- 1350/53 high inrush
- Choice of switching circuits including 3 position
- Push-on, solder and PCB terminals
- Choice of bezel styles
- Choice of panel cut outs
- Matching indicator
- Double pole
- Option with guard & cover
- DC LED Illumination Available for "P" Rocker
- Bezel size 'G' style 32.0 x 25.0

## Approvals and specifications

1550 Series 16(4)A 250Vac T125

UL CSA 16A 250Vac, (2 posn) 250Vac 1hp, 125Vac 1/2hp, (3 posn) 250 Vac 1/2hp, 125Vac 1/4hp. UL 85°C, file E45221, CSA file LR10990.

**In house test:**  
10A 24Vdc—Indicative rating only

1350 Series

UL CSA 20A 250Vac 1hp, 125Vac 1/2hp. UL 72Vdc 7A, 36Vdc 14A, UL 85°C, file E45221, CSA file LR10990.

| Terminal                                                                        | Function                                                                                      | Rocker                     | Body                                                                                                                                  | Finish                        | Body Colour       | Rocker Colour                                     |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------|---------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8                                                       | <b>Standard 1550</b><br><br><b>1551</b><br>HP rating N/A                                      | <b>A</b> Softline Matt<br> | Panel cut-out<br>Cut-outs must be punched in the direction of insertion<br><b>B</b><br><br>22.1/22.2 30.0 30.1 32.0 25.0<br>Matt only | <b>M</b><br>Matt              | <b>B</b><br>Black | Un-Lit<br><b>B</b><br>Black                       |
| <b>H</b><br><br>4.8 x 0.8*                                                      | <b>1552</b><br>HP rating N/A                                                                  |                            | <b>L</b><br><br>22.1/22.2 28.2 28.3 32.0 25.0<br>Matt only                                                                            | <b>G</b><br>Gloss             | <b>W</b><br>White | <b>R</b><br>Red<br><br><b>W</b><br>White          |
| <b>K</b><br><br>2.8 x 0.8*                                                      | <b>1553</b><br>Not W, X or B rocker                                                           |                            | <b>V</b> Curved<br>Matt or Gloss<br>Gloss only<br>Lit (not momentary)                                                                 | Applies to both Rocker & Body |                   | Lit<br><b>A</b><br>Amber<br><br><b>G</b><br>Green |
| <b>T</b><br><br>Ø2.1<br>Solder                                                  | <b>1560 µ</b><br><br><b>1561 µ</b><br>HP rating N/A                                           |                            | <b>P</b> Lit window Matt<br>Lit (not momentary)                                                                                       |                               |                   | <b>C</b><br>Clear<br><br><b>R</b><br>Red          |
| <b>U</b><br><br>Ø2.1<br>Right angle T Solder (Not DP)                           | <b>1562 µ</b><br>In house tests only                                                          |                            |                                                                                                                                       |                               |                   |                                                   |
| <b>X</b><br><br>Ø2.1<br>PCB 0.8Sq*<br>*Contact sales for details on 1350 series | <b>1570 µ</b><br>125V & 250V 1/2 HP<br>H terminal rated T100 only<br>terminal rated T100 only |                            |                                                                                                                                       |                               |                   |                                                   |
|                                                                                 | <b>1571 µ</b><br>HP rating N/A<br>H terminal rated T100 only                                  |                            |                                                                                                                                       |                               |                   |                                                   |
|                                                                                 | <b>1572 µ</b><br>HP rating N/A<br>H terminal rated T100 only                                  |                            |                                                                                                                                       |                               |                   |                                                   |
|                                                                                 | <b>High Inrush 1350</b><br>Not W, X or B rocker                                               |                            |                                                                                                                                       |                               |                   |                                                   |
|                                                                                 | <b>1353</b><br>Not W, X or B rocker                                                           |                            |                                                                                                                                       |                               |                   |                                                   |

## Splash Resistance

### In house test:

20A 24Vdc—Indicative rating only

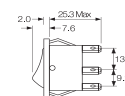
3mm contact gap except if marked  $\mu$ .



### 1350 High inrush, positive break switching

The 1350 series mechanism ensures contact welds formed at switch-on are positively separated by the plunger tube acting directly on the step in the moving contact.

## Dimensions



### Panel thickness

G, H 0.75 to 2.5mm

Terminal spacing - Poles 10.2 between centres

\* For cut-out details on momentary switches call sales

| Insert Colour     | Lamp Voltage                     | Legend      | Legend Colour     | Options                                                                                                 |
|-------------------|----------------------------------|-------------|-------------------|---------------------------------------------------------------------------------------------------------|
| Blank             | Blank                            | Blank       | Blank             | <a href="#">Finish</a><br>Matt is standard.                                                             |
| <b>R</b><br>Red   | <b>2</b><br>125V Neon            | <b>602A</b> | <b>B</b><br>Black | <a href="#">Colour</a><br>Call sales for custom colours.<br>A full range is available for large orders. |
| <b>W</b><br>White | <b>3</b><br>250V Neon            |             | <b>W</b><br>White | <a href="#">Legend printing</a><br>Select from the examples or call sales for custom legends.           |
|                   | <b>5</b><br>12Vdc LED (P Rocker) |             |                   | <a href="#">Lamp voltage</a><br>Call sales for details.                                                 |
|                   | <b>6</b><br>24Vdc LED (P Rocker) |             |                   |                                                                                                         |
|                   | <b>7</b><br>12V Filament         |             |                   |                                                                                                         |
|                   | <b>8</b><br>24Vdc Filament       |             |                   |                                                                                                         |

## Examples



C1553AH - - -



C1550AH - - -

# R13 Round Rocker Switches

10A 250Vac



## Key Features

- Miniature round rocker switch
- Ratings up to 10A, 250Vac
- Single & double pole
- Illuminated & nonilluminated, neon and LED
- Choice of actuators
- Matching indicator
- Panel cut out: 20.2 dia.

## Approvals and specifications

SP 10(4)A 250Vac T85 1E4

DP 10(4)A 250Vac T85 1E4

UL CSA SP 16A 125Vac & 10A 250Vac  
UL CSA DP 16A 125Vac, 10A 250Vac, 10A 28Vdc  
UL 85°C, file E67774(S), CSA file LR45128

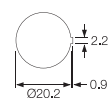
### RoHS compliant

Single pole has  $\mu$  contact gap.

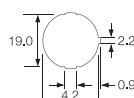
### Special products

Are made to order and can be supplied with a range of body and rocker / lens colours, print & lamp voltage.

## Dimensions

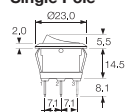


Snap fixing into 2.0 to 3.0mm panels

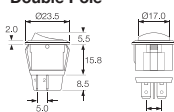


Snap fixing into 0.7 to 3.0mm panels

### Single Pole



### Double Pole



### Protective cover L188



Snap on to bodies (not R13 211 or R13 112LP), this reduces maximum acceptable panel thickness to 2.4mm.

## Examples



R13 112B NAA



R13 112A AAA



R13 112A2 ---

**R13 / 112 / A / B / B / 3 / 2 / 602A / W / L188**

Series

Type

Function

Body Colour

Rocker Colour

Insert Colour

Lamp Voltage

Legend

Legend Colour

Legend Colour

## Product details



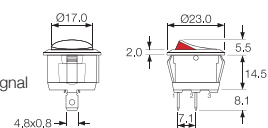
1 2  
SP ON - OFF  $\mu$   
**Cat no.**  
**R13 112A AAA**



1 2 3  
SP ON - OFF  $\mu$   
Lit 230V  
**Cat no.**  
**R13 112B NAC**



1 2  
SP ON - OFF  $\mu$   
Bright colour ON signal  
**Cat no.**  
**R13 112A2 - -**



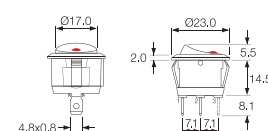
1 2  
SP ON - OFF  $\mu$   
**Cat no.**  
**R13 112A AAB**



1 2 3  
SP ON - ON  $\mu$   
**Cat no.**  
**R13 112C AAA**



1 2 3  
SP ON - OFF  $\mu$   
Lit Window  
**Cat no.**  
**R13 112B2 - -**



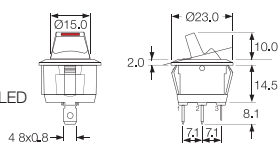
1 2 3  
SP ON - OFF  $\mu$   
Lit 230V  
**Cat no.**  
**R13 112B NAA**



1 2 3  
SP ON - OFF - ON  $\mu$   
**Cat no.**  
**R13 112D AAA**



12 3- 3+  
SP ON - OFF  $\mu$   
Paddle tip has red LED  
**Cat no.**  
**R13 112LP - -**



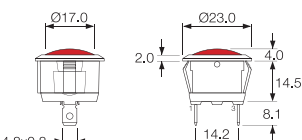
1 2 3  
SP ON - OFF  $\mu$   
Lit 230V  
**Cat no.**  
**R13 112B NAB**



SP ON - OFF  $\mu$   
(Momentary ON)  
**Cat no.**  
**R13 208F AAA\***



1 3  
Indicator light  
**Cat no.**  
**R9 92B - - -**



1 2  
DP ON - OFF  
**Cat no.**  
**R13 244A AAA**



DP ON - OFF  
Lit 230V  
**Cat no.**  
**R13 244B NAA**

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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