



The new caps for the Multimec switches 1PS / 1QS / 1RS is optimized with a "snap on" system to ensure the cap to stay on the switch actuator even under heavy vibrations or similar scenarios.

- The 1PS cap is a solid cap which can be supplied in different colours
- The 1QS cap is a solid cap like 1PS, but with a rectangular lens for intensive or smooth illumination
- The 1RS cap is a solid cap like 1PS, but with a round lens for intensive or smooth illumination



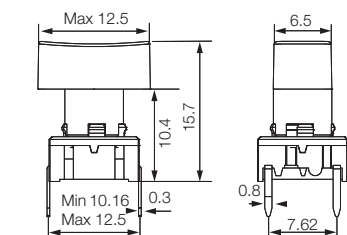
Distributor:

### Technical Data

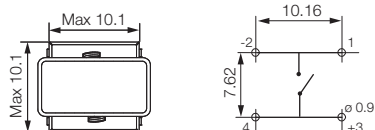
- through-hole or SMD
- 50mA/24VDC
- single pole/momentary
- 10.000.000 operations life time
- IP67 sealing
- temperature range:  
LED:-40/+85°C  
solid cap +65°C  
transparent +85°C
- actuation force: 2.0, 3.5, 6.5 N



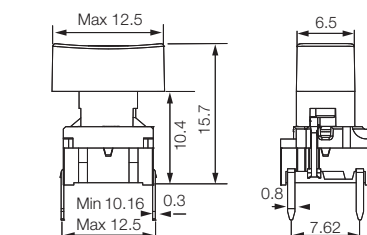
### Dimensions (through-hole)



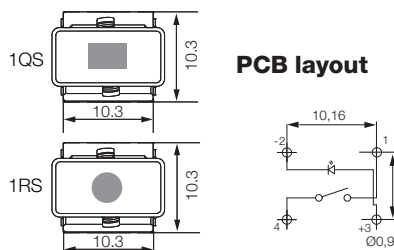
### PCB layout



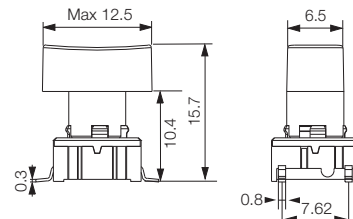
### Dimensions (w/LED)



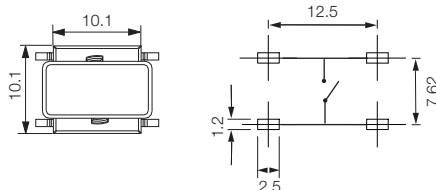
### PCB layout



### Dimensions (SMD)



### PCB layout



### HOW TO ORDER

|               |                          |                        |                          |                                                                                     |                         |                        |
|---------------|--------------------------|------------------------|--------------------------|-------------------------------------------------------------------------------------|-------------------------|------------------------|
| <b>5 G</b>    |                          |                        |                          |                                                                                     |                         |                        |
| <b>Switch</b> | <b>Mounting</b>          | <b>Actuation force</b> | <b>LED</b>               | <b>Cap</b>                                                                          | <b>Colour code</b>      | <b>Lens</b>            |
|               | <b>TH9</b> through-hole  | <b>20</b>              | <b>01</b> blue           | <b>1QS</b> with lens                                                                | <b>00</b> blue          | <b>1</b> transparent   |
|               | <b>SH9</b> surface mount | <b>35</b>              | <b>22</b> green          |  | <b>03</b> grey          | <b>6</b> frosted white |
|               |                          | <b>65</b>              | <b>42</b> yellow         | <b>1RS</b> with lens                                                                | <b>08</b> red           |                        |
|               |                          |                        | <b>61</b> white          |  | <b>09</b> black         |                        |
|               |                          |                        | <b>82</b> red            | <b>1PS</b>                                                                          |                         |                        |
|               |                          |                        | <b>2242</b> green/yellow |  | <b>11</b> transparent   |                        |
|               |                          |                        | <b>8222</b> red/green    |                                                                                     | <b>16</b> frosted white |                        |
|               |                          |                        | <b>8242</b> red/yellow   |                                                                                     |                         |                        |

### Switch to be used: 5E or 5G

|                          |                        |                                                                                     |                    |  |  |
|--------------------------|------------------------|-------------------------------------------------------------------------------------|--------------------|--|--|
| <b>5 E</b>               |                        |                                                                                     |                    |  |  |
| <b>5 G</b>               |                        |                                                                                     |                    |  |  |
| <b>Mounting</b>          | <b>Actuation force</b> | <b>Cap</b>                                                                          | <b>Colour code</b> |  |  |
| <b>TH9</b> through-hole  | <b>20</b>              | <b>1PS</b> solid colour                                                             | <b>00</b> blue     |  |  |
| <b>SH9</b> surface mount | <b>35</b>              |  | <b>02</b> green    |  |  |
|                          | <b>65</b>              |                                                                                     | <b>03</b> grey     |  |  |
|                          |                        |                                                                                     | <b>04</b> yellow   |  |  |
|                          |                        |                                                                                     | <b>06</b> white    |  |  |
|                          |                        |                                                                                     | <b>08</b> red      |  |  |
|                          |                        |                                                                                     | <b>09</b> black    |  |  |

Dimensions (mm) Unless otherwise specified, all tolerances  $\pm 0,2$

Ordering example: 5ETH935+1PS08

See colour codes on our website: [www.mec.dk](http://www.mec.dk)

# Mouser Electronics

Authorized Distributor

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[1RS031](#) [1QS081](#) [1RS091](#) [1PS08](#) [1R096](#) [1RS086](#)