



The new caps for the Multimec switches 1DS / 1ES / 1FS 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 1DS cap is a solid cap which can be supplied in different colours
- The 1ES cap is a solid cap like 1DS, but with a small round lens for intensive or smooth illumination
- The 1FS cap is a solid cap like 1DS, but with a large round lens for intensive or smooth illumination



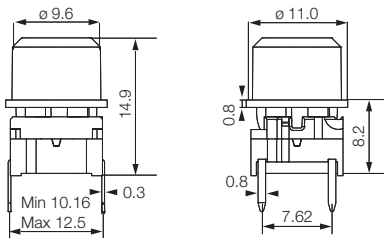
Distributor:

Technical Data

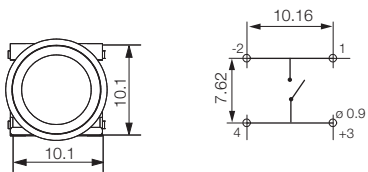
- through-hole or SMD
- 50mA/24VDC
- single pole/momentary
- 10.000.000 operations life time
- IP67 sealing
- temperature range:
LED: -40/+85°C
solid cap +65°C
transparent +85°C
- actuation force: 2.0, 3.5, 6.5 N



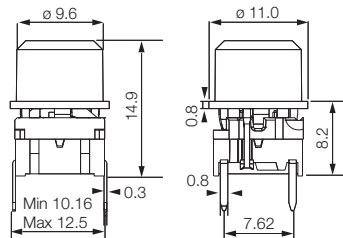
Dimensions (through-hole)



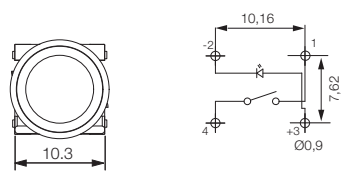
PCB layout



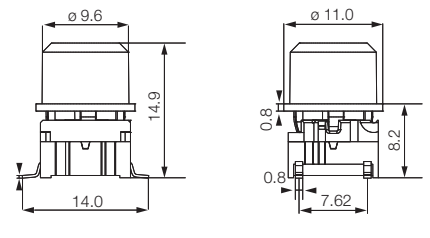
Dimensions (w. LED)



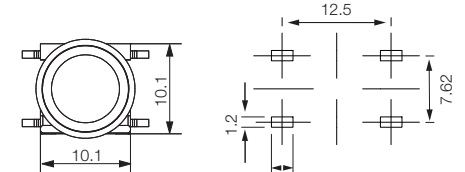
PCB layout






Dimensions (SMD)




PCB layout



HOW TO ORDER

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

| | | | | |
|---------------|--------------------------|--------------------------|---|--------------------------|
| 5 G | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Switch | Mounting | Actuation force | Cap | Colour code |
| | TH9 through-hole | 20 | 1DS solid colour | 00 blue |
| | SH9 surface mount | 35 |  | 02 green |
| | | 65 | | 03 grey |
| | | | | 04 yellow |
| | | | | 06 white |
| | | | | 08 red |
| | | | | 09 black |

Dimensions (mm) Unless otherwise specified, all tolerances ±0,2

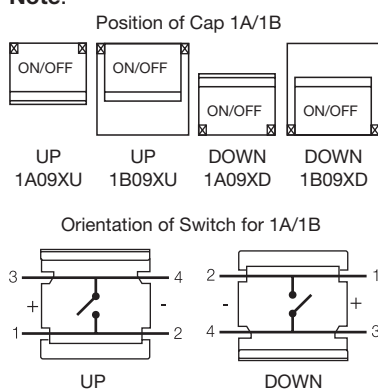
Ordering example: 5GTH935 + 1DS08

See colour codes on our website: www.mec.dk



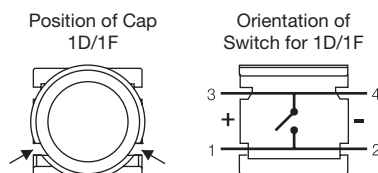
All standard legends are white on black caps.
The size of the legends listed may not correspond to the actual size. Please ask your local distributor, if you do not find what you need on the list. New legends may have been added after this catalogue was printed.
Custom legends and other colour combinations are available, please contact your local distributor.

Note!



For 1A/1B the orientation shown above is standard.

Please consider the switch orientation you require before specifying legend orientation.



For the 1D and 1F caps the orientation shown above is standard.

Please consider the switch orientation you require before specifying legend orientation.

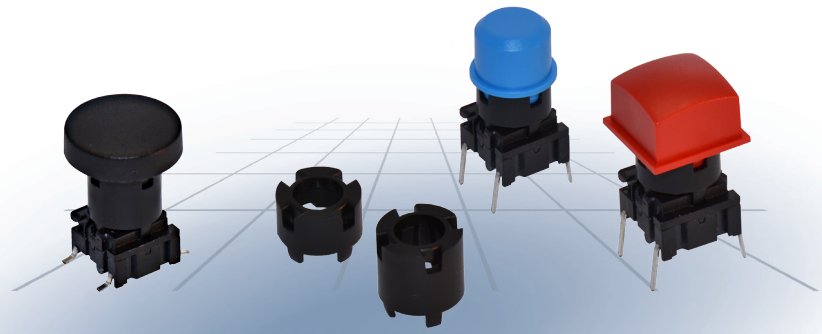
Standard Keycap Legends

| LEGEND | Part no. | | | | 1D09_ | Reverse Print 1F096_ | 1ZB09XD_ | 1ZC09_ |
|--------|----------|---------|---------|---------|-------|-------------------------|----------|--------|
| | 1A09XU_ | 1A09XD_ | 1B09XU_ | 1B09XD_ | | | | |
| 0 | 000 | 000 | 000 | 000 | 000 | 000 | | |
| 1 | 001 | 001 | 001 | 001 | 001 | 001 | | |
| 2 | 002 | 002 | 002 | 002 | 002 | 002 | | |
| 3 | 003 | 003 | 003 | 003 | 003 | 003 | | |
| 4 | 004 | 004 | 004 | 004 | 004 | 004 | | |
| 5 | 005 | 005 | 005 | 005 | 005 | 005 | | |
| 6 | 006 | 006 | 006 | 006 | 006 | 006 | | |
| 7 | 007 | 007 | 007 | 007 | 007 | 007 | | |
| 8 | 008 | 008 | 008 | 008 | 008 | 008 | | |
| 9 | 009 | 009 | 009 | 009 | 009 | 009 | | |
| A | 010 | 010 | 010 | 010 | | | | |
| B | 011 | 011 | 011 | 011 | | | | |
| C | 012 | 012 | 012 | 012 | | | | |
| D | 013 | 013 | 013 | 013 | | | | |
| # | 107 | 107 | 107 | 107 | 107 | 107 | | |
| * | 019 | 019 | 019 | 019 | 019 | 019 | | |
| ☐ | 016 | 016 | 016 | 016 | | | | |
| → | 033 | 033 | 033 | 033 | 033 | | | |
| ← | 133 | 133 | 133 | 133 | 133 | | | |
| ↑ | 034 | 034 | 034 | 034 | 034 | | | |
| ↓ | 134 | 134 | 134 | 134 | 134 | | | |
| ↖ | 135 | 135 | 135 | 135 | 135 | 135 | | |
| + | 054 | 054 | 054 | 054 | | | | |
| - | 059 | 059 | 059 | 059 | | | | |
| • | 056 | 056 | 056 | 056 | | | | |
| ▲ | | | | | | | 136 | |
| ⏻ | 123 | 123 | 123 | 123 | 123 | 123 | | 123* |
| START | 031 | 031 | 031 | 031 | | | | |
| CLEAR | 036 | 036 | 036 | 036 | | | | |
| LOAD | 037 | 037 | 037 | 037 | | | | |
| RESET | 038 | 038 | 038 | 038 | | | | 038 |
| CANCEL | 048 | 048 | 048 | 048 | | | | |
| ENTER | | | | | | | | 105 |
| OK | | | | | | | | 118 |
| SET | | | | | | | | 119 |
| MENU | | | | | | | | 120 |
| FUNC | | | | | | | | 121 |
| HOME | | | | | | | | 122 |

* 1ZC16 for illumination

Technical Data:

- through-hole or SMD
- 50mA/24VDC
- single pole/momentary
- 10.000.000 operations lifetime
- IP67 sealing
- temp. range: switch: -40/+160°C
LED: -30/+85°C
solid keycap: -40/+65°C
transparent keycap: -40/+85°C
- actuation force: 2.0, 3.5, 6.5 N



| Dimensions (2SS) | Dimensions (SMD) + 1GCS | Dimensions (SMD) + 1DS | Dimensions (TH) + 1TS |
|--|-------------------------|------------------------|-----------------------|
| <p>5mm, 6mm, 7mm, 8mm, 9mm, 10mm</p> | | | |

HOW TO ORDER

| | | | | | | | | |
|---------------|---|--|--|---|------------------------|---|--|------------|
| 5 G | <input type="text"/> | <input type="text"/> | <input type="text"/> | + | <input type="text"/> | + | 2 S S 0 9 - <input type="text"/> | . 0 |
| Switch | Mounting | Actuation force | (LED) | | Cap | | Extender 2SS height | |
| | TH9 through-hole SH9 surface mount | 20 35 65 Q* | 01 blue 22 green 42 yellow 61 white 82 red 2242 green/yellow 8222 red/green 8242 red/yellow | | See the table below | | 05.0 06.0 07.0 08.0 09.0 10.0 | |

2SS can be used with all 5G-type snap-on caps

All 2SS extenders are stackable giving the possibility to match most overall heights.

| Keycap | Original height | Height with a single extender |
|----------------|------------------|---------------------------------------|
| 1DS/1ES/1FS | 14.9 | 19.9-24.9 |
| 1GAS/1GCS | 12.5 | 17.5-22.5 |
| 1KS/1KBS/1KCS | 19.1; 20.2; 20.1 | 24.1; 25.2; 25.1- 29.1; 30.2; 30.1 |
| 1NS | 14.9 | 19.9-24.9 |
| 1TS/1US/1VS | 14.9 | 19.9-24.9 |
| 1WAS/1WDS/1WPS | 15.7 | 20.7-25.7 |
| 1XS | 18.5 | 23.5-28.5 |
| 1ZCS | 11.7 | 16.7-21.7 |

*Only available for actuation force 2.0N (20) and the letter Q is added to the end of the switch part number. See the ordering example.

Dimensions (mm) Unless otherwise specified, all tolerances +/- 0,2

Ordering example: 5GTH935+1GAS09+2SS09-06.0
*5GSH920Q or 5GTH92082Q (quiet version)

See colour codes on our website: www.mec.dk

For updates of products and/or changes of specifications please see www.mec.dk