

multimec®

basic switch modules

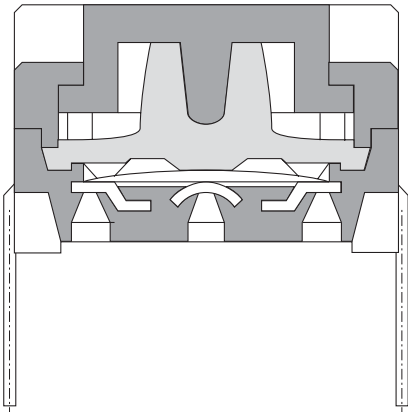
Through-hole Versions						
3A		3C	3E	3F		
For 1A/1B/1M/1ZA/1ZB	w/LED for 1C/1H		For 3E actuators/Varimec	For 1D/1K/1N/1P/1S/1T/1U/1V/1WA/1WD/1WG/1WP/1X/1ZC/1GA/1GC	w/LED for 1D/1E/1F/1N/1Q/1R/1S/1X	w/LED for 1K/1KB/1KC/1T/1U/1V/1WA/1WD/1WP
Standard Versions						
3ATL6 3ATH9	3ATL600/20/40/80	3CTL6/3CTL9 3CTH9	3ETLXX-H* 3ETHXX-H*	3FTL6 3FTH9	3FTL600/20/40/60/80/ 2040/8020/8040	3FTL623/45/88
* 3E available in 6 standard heights: 08.0, 09.5, 10.4, 11.0, 12.0, 15.0 mm. Other heights between 08.0 and 15.0 mm are available upon request.						
Specials: Gold contacts, quiet version and actuation force other than 3.0N						

Surface Mount Versions				Right Angle Versions			
3A	3C	3E	3F	3C	3E	3F	3F w/LED
For 1A/1B/1M/1ZA/1ZB		For 3E actuators/Varimec	For 1D/1K/1N/1P/1S/1T/1U/1V/1WA/1WD/1WP/1X/1ZC/1GA/1GC		For 3E actuators/Varimec	For 1D/1K/1N/1P/1S/1T/1U/1V/1W/1WA/1WD/1WP/1X/1ZC/1GA/1GC	For 1D/1E/1F/1N/1Q/1R/1S/1X
Standard Versions				Standard Versions			
3ASH9/3ASH9R	3CSH9/3CSH9R	3ESH9/3ESH9R	3FSH9/3FSH9R	3CTL6RAS	3ETXX-X.XRAS	3FTL6RAS	3FTL600/20/40/60/80/ 2040/8020/8040RAS

Co-planarity = ≤ 0.05

DIMENSIONS (mm) Unless otherwise specified, all tolerances ± 0.2

multimec® Cross Section



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

multimec® 3C/3E

Technical Data

- through-hole or SMD
- 50mA/24VDC
- single pole/momentary
- 10.000.000 operations life time
- IP67 sealing
- temperature range:
 - low temp: -40/+115°C
 - high temp: -40/+160°C
- actuator:
 - in PPS: -40/+160°C
 - in polycarbonate: -40/+85°C



Standard 3C		Variable heights 3E	
Dimensions (through-hole)	Dimensions (SMD)	Dimensions (through-hole)	Dimensions (SMD)
PCB layout	PCB layout	PCB layout	PCB layout

How to order

3 C
Switch

Mounting
T through-hole
S surface mount

L 6 low temp. white
L 9 low temp. black
H 9 high temp.

3 E
Switch

Mounting
T through-hole
S surface mount

L low temp.
H high temp.

9

 Black
 Actuator made of PPS

Standard overall height
08.0
09.5
10.4
11.0
12.0
15.0

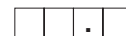
Custom heights:

 3E is available in any height from 08.0 to 15.0mm.
 Min. order qty. for custom heights is 2.000 pcs.

3 E
Switch

Mounting
T through-hole

L low temp.

20 blue
23 grey
24 yellow
28 red
29 black
 Actuator made of
 polycarbonate

Standard overall height
08.0
09.5
10.4
11.0
12.0
15.0

Switch and 3E actuator can be delivered unassembled.

 The actuators made of polycarbonate can also be used for high temperature switches,
 however they must be mounted after soldering and the temp. range will be reduced to 85°C.

Ordering example: 3CTL6 and 3ETL9-09.5 or 3ETL23-08.0

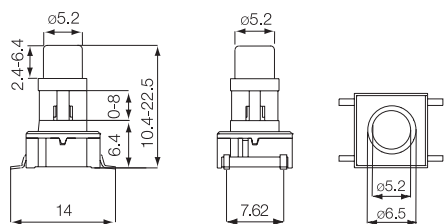
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Technical Data

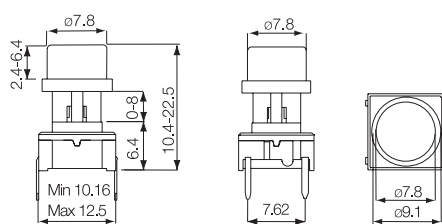
- through-hole or SMD
- 50mA/24VDC
- single pole/momentary
- 10.000.000 operations life time
- IP67 sealing
- temperature range switch:
low temp: -40/+115°C
high temp: -40/+160 °C
- temperature range cap:
-40/+160 °C



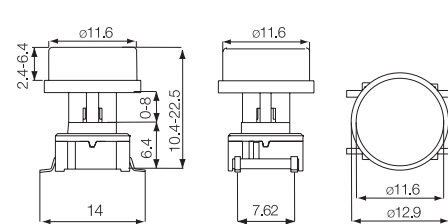
Round ø5.2



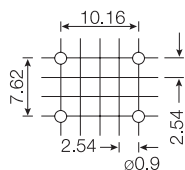
Round ø7.8



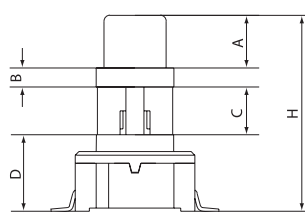
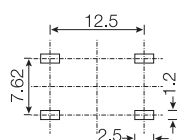
Round ø11.6



PCB Layout (through-hole)



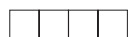
PCB Layout (SMD)



The Concept

- H** = Overall heights from 10.4-22.5
A = Variable height from 2.4 to 6.4
A cannot exceed **H** - 8.0
B = Fixed recess 1.6
D = Fixed switch 6.4
C = Variable from 0-8.1
C = **H-A-B-D**
 All measurements in mm

How to order



Switch

3ETL
3ESH
3ETH



Shape and Size

A 5.2 Round
E 7.8 Round
K 11.6 Round



Colour Codes

60 blue
63 grey
64 yellow
68 red
69 black



Overall Height
H

A 10.4
B 11.0
C 12.0
D 12.5
E 13.0
F 14.0
G 15.0
H 16.0
J 19.0
K 22.5



Height above recess
A

A 2.4
B 3.0
C 3.5
D 4.0
E 4.5
F 5.0
G 5.6
H 6.4



Tape*

R

Cap alone:

Instead of part no. for switch please use 3E- and then same as above

Examples Switch and Cap:

3ETLE64CC = Switch 3ETL, 7.8 Round Cap, Yellow, Overall Height 12.0, Height above recess 3.5, (Height under recess 0.5).

Example Cap Alone:

3E-E63FF = Cap, 7.8 Round, Grey, Overall Height with switch 14.0, Height above recess 5.0, (Height under recess 1.0).

Min. order is 2.000 pcs. per shape, size and heights for parts mentioned above.

For heights not mentioned in the list a start-up fee will apply.

*Only overall height up to 12.5mm can be supplied on tape.

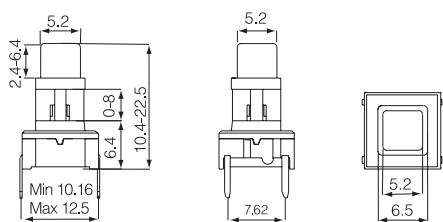
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Technical Data

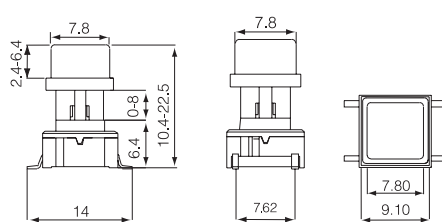
- through-hole or SMD
- 50mA/24VDC
- single pole/momentary
- 10.000.000 operations life time
- IP67 sealing
- temperature range switch:
low temp: -40/+115°C
high temp: -40/+160°C
- temperature range cap:
-40/+160°C



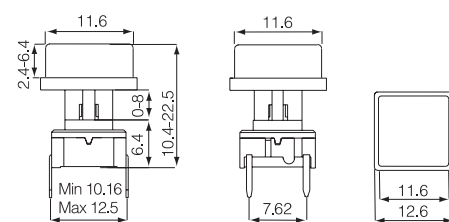
Square 5.2



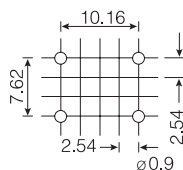
Square 7.8



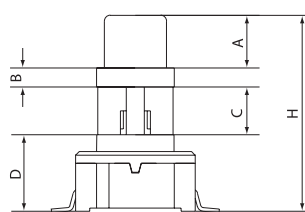
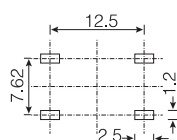
Square 11.6



PCB Layout (through-hole)



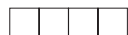
PCB Layout (SMD)



The Concept

- H** = Overall heights from 10.4 - 22.5
A = Variable height from 2.4 to 6.4
A cannot exceed **H** - 8.0
B = Fixed recess 1.6
D = Fixed switch 6.4
C = Variable from 0-8.1
C = **H** - **A** - **B** - **D**
 All measurements in mm

How to order


Switch

3ETL
3ESH
3ETH


Shape and Size

B 5.2 Square
F 7.8 Square
L 11.6 Square


Colour Codes

60 blue
63 grey
64 yellow
68 red
69 black


Overall Height
H

A 10.4
B 11.0
C 12.0
D 12.5
E 13.0
F 14.0
G 15.0
H 16.0
J 19.0
K 22.5


Height above recess
A

A 2.4
B 3.0
C 3.5
D 4.0
E 4.5
F 5.0
G 5.6
H 6.4


Tape*

R

Cap alone:

Instead of part no. for switch please use 3E- and then same as above

Examples Switch and Cap:

3ESHB60AA = Switch 3ESH, 5.2 Square Cap, Blue, Overall Height 10.4, Height above recess 2.4, (Height under recess 0).

Example Cap Alone:

3E-E63FF = Cap, 7.8 Square, Grey, Overall Height with switch 14.0, Height above recess 5.0, (Height under recess 1.0).

Min. order is 2.000 pcs. per shape, size and heights for parts mentioned above.

For heights not mentioned in the list a start-up fee will apply.

*Only overall height up to 12.5 mm can be supplied on tape.

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[Apem:](#)

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[3ETL9-08.0](#) [3ETL9-09.5](#) [3ETL9-12.0](#) [3ETL9-15.0](#) [3ESH9-10.4](#) [3E-15.0](#) [3E-10.4](#) [3ESH9-15.0](#) [3ETL9S](#) [3ETL9-11.0](#)
[3ETL920-17.0](#) [3ETL920-08.0](#) [3ETL920-10.4](#)