

multimec® basic switch modules

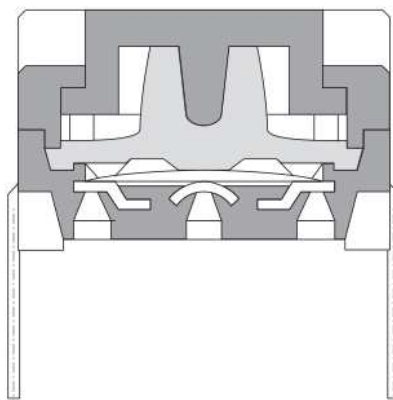
Through-hole Versions						
3A	3C	3E	3F	3F	3F	3F
For 1A/1B/1M/1ZA/1ZB	w/LED for 1C/1H	For 3E actuators/Varimec	For 1D/1K/1N/1P/1S/1T/1U/1V/1WA/1WD/1WG/1WP/1X/1ZC/1GA/1GC	w/LED for 1D/1E/1F/1N/1Q/1R/1S/1X	w/LED for 1K/1KB/1KC/1T/1U/1V/1WA/1WD/1WP	
Standard Versions						
3ATL6 3ATH9	3ATL600/20/40/80	3CTL6/3CTL9 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

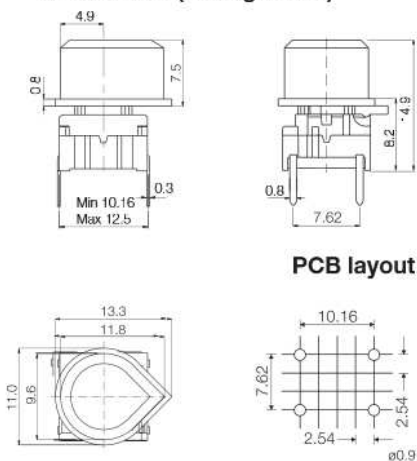
multimec® 3F + 1N

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

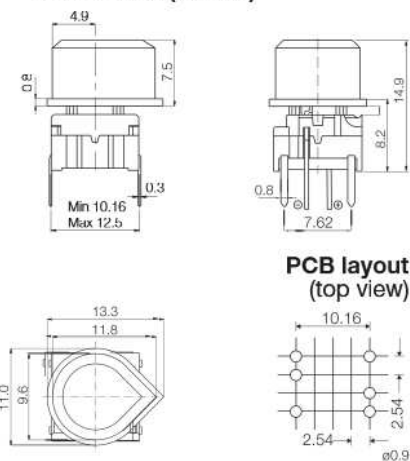


Dimensions (through-hole)



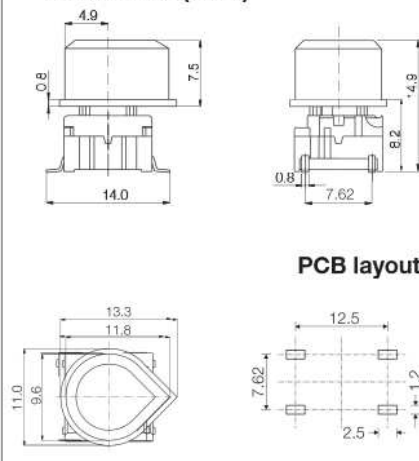
PCB layout

Dimensions (w/LED)



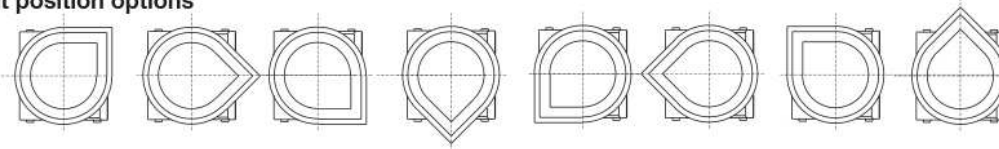
PCB layout (top view)

Dimensions (SMD)



PCB layout

8 different position options



How to order

3 F
Switch

Mounting
T through-hole
S surface mount

L 6 low temp.
H 9 high temp.

+
1 N
Cap

00 blue
03 grey
04 yellow
08 red
09 black

3 F
Switch

Mounting
T through-hole

L 6 low temp.
H 9 high temp.

LED
00 blue
20 green
40 yellow
60 white
80 red
2040 green/yellow
8020 red/green
8040 red/yellow

+
1 N
Cap

10 frosted blue
12 frosted green
14 frosted yellow
16 frosted white
18 frosted red

Keycaps shown on this page can also be used on
illumec™ switch 4F - see page 13

Ordering example: 3FTL6 + 1N09 or 3FTL680 + 1N18

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

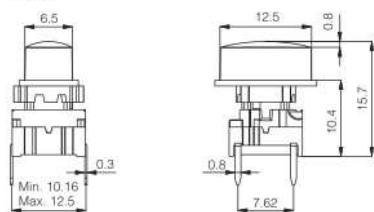
multimec® 3F + 1WA/1WD/1WP

Technical Data

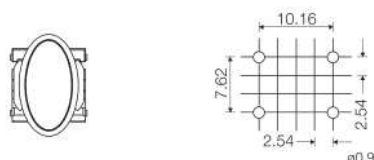
- through-hole or SMD
- 50mA/24VDC
- single pole/momentary
- 10.000.000 operations life time
- IP67 sealing
- temperature range:
low temp: -40/+115°C
high temp: -40/+160°C



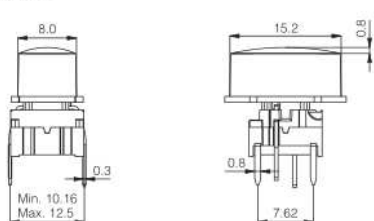
Dimensions (through-hole) 1WA



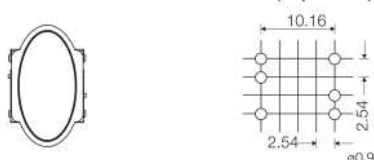
PCB layout



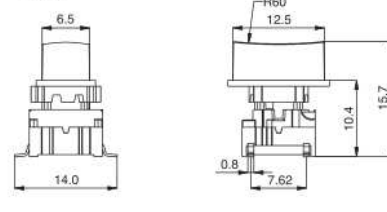
Dimensions (w/LED) 1WD



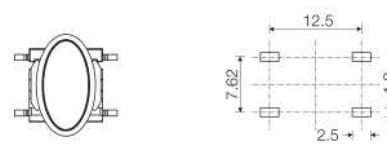
PCB layout (top view)



Dimensions (SMD) 1WP



PCB layout



8 different position options



How to order

3 F	☐	☐	+	☐	☐
Switch	Mounting	L 6 low temp. H 9 high temp.		Cap	00 blue 03 grey 08 red 09 black 30 ultra blue 40 pigeon blue 42 aqua blue 53 metal light grey 57 metal dark grey
	T through-hole S surface mount			1WA 1WD 1WP	

3 F	T	☐	☐	+	☐	☐
Switch	Mounting	L 6 low temp. H 9 high temp.	LED		Cap	16 frosted white
	T through-hole		23 green 45 yellow 88 red		1WA 1WD 1WP	

Keycaps shown on this page can also be used on
illumec™ switch 4F - see page 13

Ordering example: 3FTL6 + 1WA09 or 3FTL680 + 1WP16

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

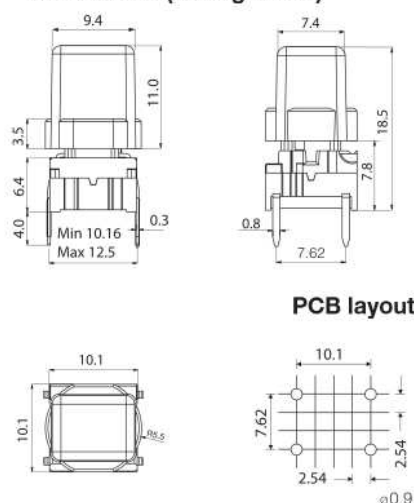
multimec® 3F + 1X

Technical Data

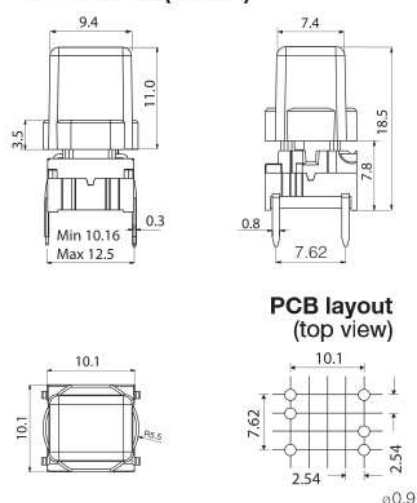
- through-hole or SMD
- 50mA/24VDC
- single pole/momentary
- 10.000.000 operations life time
- IP67 sealing
- temperature range:
low temp: -40/+115°C
high temp: -40/+160°C



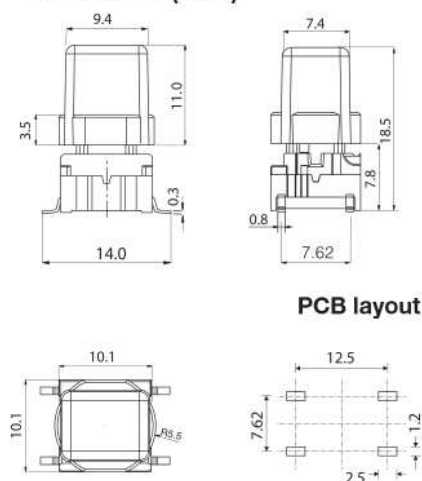
Dimensions (through-hole)



Dimensions (w/LED)



Dimensions (SMD)



How to order

3 F	☐	☐	+	1 X	☐	
Switch	Mounting	L 6 low temp.		Cap	00 blue	30 ultra blue
	T through-hole	H 9 high temp.			02 green	40 dusty blue
	S surface mount				03 grey	42 aqua blue
					04 yellow	32 mint green
					06 white	33 tele grey
					08 red	34 melon
					09 black	38 noble red
						50 metal dark blue
						53 metal light grey
						57 metal dark grey
						58 metal bordeaux

3 F	T	☐	☐	+	1 X	☐
Switch	Mounting	L 6 low temp.	LED		Cap	11 transparent
	T through-hole	H 9 high temp.	00 blue			16 frosted white
			20 green			
			40 yellow			
			60 white			
			80 red			
			2040 green/yellow			
			8020 red/green			
			8040 red/yellow			

Keycaps shown on this page can also be used on illumec™ switch 4F - see page 13

Ordering example: 3FTL6 + 1X09 or 3FTL680 + 1X11

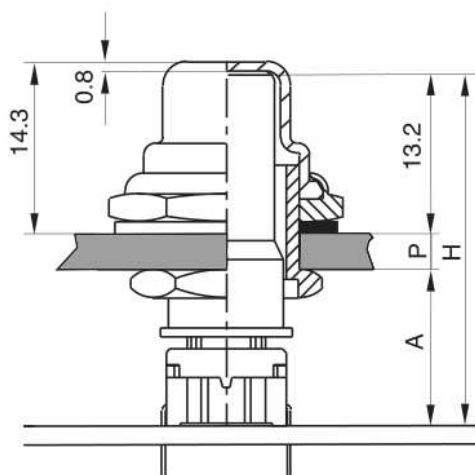
For updates of products and/or changes of specifications please see www.mec.dk

multimec® Aquamec™

Specifications switches: Specifications Sealing Boot:

- 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

- Operating temperature:
-40/+85°C
- IP67 sealing
- sealing life time:
2.000.000 operations
- material: silicone



$$H = A + P + 13.2$$

This leaves nominal 0.3 mm clearance between the top of the cap and the inner side of the sealing boot to accomplish assembly tolerances. **A** can be chosen between 10 -13 mm, we recommend 10 mm to reduce building height and optimize cap guidance.

A	P	CAP	H	BUSHING
10.0	1.0	AQCXX-24.2	24.2	AQN-0.5
10.0	2.0	AQCXX-25.2	25.2	AQN-0.5
10.0	3.0	AQCXX-26.2	26.2	AQN-2.5
10.0	4.0	AQCXX-27.2	27.2	AQN-2.5

Cap is available in black (09) or transparent (11).

The dimension H is the overall height of the switch+cap.

Bushing AQN-0.5 accepts panel thickness (P) 0.5-2.5 mm.

Bushing AQN-2.5 accepts panel thickness (P) 2.5-4.0 mm.

Panel cut out $\varnothing 12.0 \pm 0.2$.

How to order

3 F			+	AQN	-		+	AQC	-		+	AQB01	
Switch	Mounting	L 6 low temp. H 9 high temp.		Bushing	Panel			Cap	Overall Height			Sealing boot, incl. sealing ring	
	T through-hole S surface mount				0.5 2.5			09 black 11 transparent 	24.2 25.2 26.2 27.2			09 black 11 transparent 	

3	F	T			+	AQN	-		.		+	AQC			-		.		+	AQB01		
Switch	Mounting	L 6 low temp. H 9 high temp.				Bushing		Panel				Cap			Overall					Sealing boot, incl. sealing ring		
	T through-hole							0.5 2.5							Height					11 transparent		
						00 blue 20 green 40 yellow 60 white 80 red 2040 green/yellow 8020 red/green 8040 red/yellow									24.2 25.2 26.2 27.2							

Keycaps shown on this page can also be used on illumec™ switch 4F - see page 13

Ordering example: AQB0109 + AQC09-27.2 + AQN-2.5 + 3FTL6

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