Panel sealed solution for a control unit

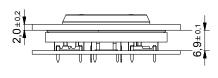
controlmec[™] 5E/5G + 1ZW

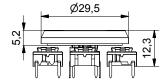
- Round cap
- Panel sealed solution, designed to control a unit or navigate a display
- Ø29.5 mm
- h = 12.3 mm
- Material: ABS/polycarbonate
- Temp. Range:
 - Solid cap: -40/+65°C
 - Transparent cap: -40/+85°C
- Panel cut-out: 1ZW-Ø30.3



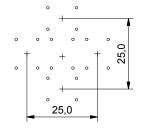
DIMENSIONS

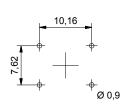
TH + 1ZW





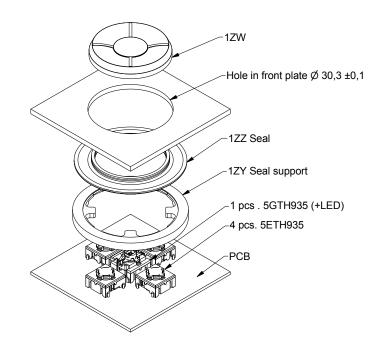
PCB layout





We recommend using through-hole terminals for precise placing.

MOUNTING EXAMPLE



ILLUMINATED - HOW TO ORDER

Switch 5 G Mounting

TH9 through-hole (**SH9** surface mount) Actuation force

65

LED (optional)

02 blue

22 green

42 yellow 61 white

82 red

2242 green/yellow 8222 red/green 8242 red/yellow

Colour code

00 blue 03 grey

06 white **08** red

09 black

16 frosted white



118 OK 123 ს

Switch 5 E Mounting

TH9 through-hole

(SH9 surface mount)

Actuation force

35

65

+

Panel seal

+

Seal

1 Z Z

09 black



Seal support



Ordering example:

Panel sealed or non-panel sealed module

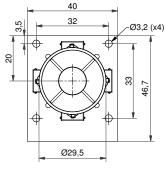
controlmec[™] module

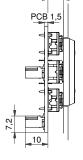
- Module should be attached to the front plate with bolts (bolts not supplied by MEC)
- Round cap
- Panel sealed or non-panel sealed solution
- Ø29.5 mm
- h =12.3 mm; 12.0 mm
- Temp. Range:
 - Solid cap: -40/+65°C
 - Transparent cap: -40/+85°C
- Panel cut-out: 1ZW/1Z module-Ø30.3

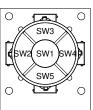


DIMENSIONS

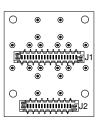
1Z module











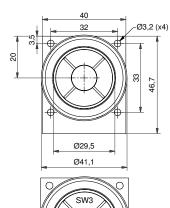


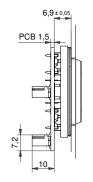
HOW TO ORDER

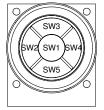
controlmec™ Module ordering options:

- controlmec[™] Module excl. keycaps
- controlmec[™] Module incl. keycaps
- controlmec[™] Module incl. keycaps with legends
- illuminated controlmec[™] Module excl. keycaps
- illuminated controlmec[™] Module incl. keycaps with legends
- Sealed controlmec[™] Module excl. keycaps
- Sealed controlmec[™] Module incl. keycaps
- Sealed controlmec[™] Module incl. keycaps with legends
- Sealed illuminated controlmec[™] Module excl. keycaps
- Sealed illuminated controlmec[™] Module incl. keycaps with legends

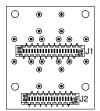
1ZW module











Part no. for a module:

controlmec™ Module has many customisation options regarding actuation force, cap and LED colours and legends. Because of that "How to order" has been placed on page 43.

See previous pages for information on switch and cap options.

SEE THE "HOW TO ORDER" GRAPH AS WELL AS CIRCUIT DIAGRAM AND CONNECTOR INFO ON PAGE 43

Ordering example: 95CA350913611806 (without illumination)

95CB358216LMH13612309 (with illumination)

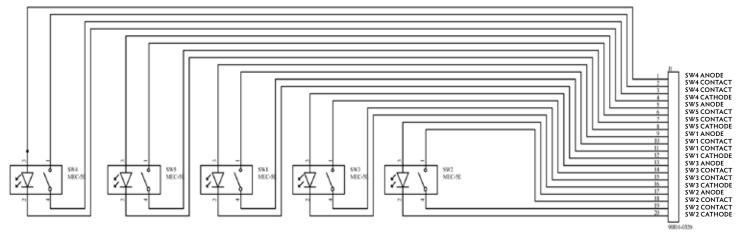
95CC6509 (sealed without illumination)

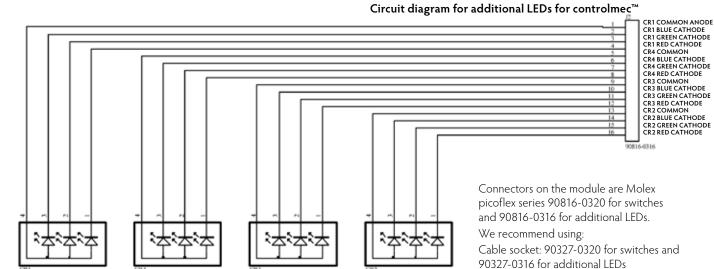
95CD356116LMH13612309 (sealed with illumination)

Please see colour codes, updates of products and changes of specifications on www.mec.dk



Circuit diagram for switches





HOW TO ORDER - MODULES Module LED* Cap Actuation force Туре 9 5 + + + + + **20** 2.0N** C controlmec module A non-illuminated 2242 green/yellow 02 blue N navimec module **B** illuminated **35** 3.5N 22 green 8222 red/green Q 10Q module **65** 6.5N 42 yellow 8242 red/yellow Sealed controlmec module: R 10R module 61 white C non-illuminated **82** red **D** illuminated

+	Cap colour	+	Legend type*	+	Legend on the edges*	+	Legend in the centre*	+	Legend colour*
	09 black16 frosted white		(nothing) pad printedLMH hard paint laser markeM Metal	ed	136 🛦		118 OK 123 b ***Find more options on	1	06 white 09 black

mec.dk

Ordering example:

95CB358216LMH13611809 - illuminated non-sealed controlmec 95CC650913612306 - non-illuminated panel sealed controlmec 95NB358216LMH13611809 - illuminated Navimec module

95QB200116M118 - illuminated 10Q module

95RA350912306 - non-illuminated 10R module

Please see colour codes, updates of products and changes of specifications on www.mec.dk

^{*}optional, ** 2.0N actuation force not recommended for controlmec

LegendsAvaliable for Multimec caps

LEGEND	1B09U_ 1B09D_	1DS09_	1FS096R_	1ZB09D_ 1ZB16DLMH_	1ZCS_	10R_ & 10RF_ 10RM16_	10Q_ 10QM16_
0	000	000	000				
1	001	001	001				
2	002	002	002				
3	003	003	003				
4	004	004	004				
5	005	005	005				
6	006	006	006				
7	007	007	007				
8	800	008	008				
9	009	009	009				
#		107	107				
*		019	019				
-		033					
←		133					
†		034					
†		134					
4		135	135				
+						054	054
-						059	059
•				136*			
ტ		123	123		123*	123	123
ON/OFF						017	017
STOP						018	018
START						031	031
RESET					038	038	038
CANCEL						048	048
ENTER					105	105	105
ESC					051		
ОК					118*	118	118
SET					119		
MENU					120		
FUNC					121		
HOME					122		

STANDARD OPTIONS

1B pad printed

1DS pad printed

1FS reverse printed

1ZB pad printed *laser marked

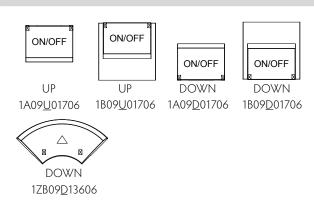
1ZCS pad printed *reverse printed *laser marked

10R(F) & 10Q pad printed reverse printed

10RM & 10QM metal symbol

Legends

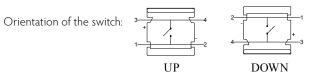
Avaliable for Multimec caps



POSITIONING OF LEGENDS ON ROCKER-ACTION CAPS

When ordering legends for caps with hinge-type cap retention system, it is important to note the position of the cap. An extra letter (U or D) needs to be added to the part number to refer to the position of the hinges in relation to the legend. See samples to the left.

Rocker-action caps without a lens: 1A, 1B, 1M, 1ZA and 1ZB



LEGEND ILLUMINATION

Option 1:LASER MARKED

In case of laser marked legends an "LM" is added after the cap colour, before the legend code. We recommend using hard paint (additional "H") for increased lifetime of the paint. E.g. 1ZB16DLMH13609

Option 2: REVERSE PRINTED

In case of reverse printed caps an "R" is added after the cap colour, before the legend code. Especially relevant when standard legends has both negative and positive print option. E.g. 1FS096R00009

Option 3: METAL SYMBOL

Only available for 10RM and 10QM (therefore the "M"). E.g. 10RM16059

STANDARD AND CUSTOM LEGENDS - HOW TO ORDER

STANDARD LEGENDS

- Standard are only certain legends on certain caps. See the table on the previous page.
- All standard pad-printed legends are white on black caps.
- All standard reverse-printed and laser marked legends are black on frosted white cap.

<u>Cap</u>	Cap colour	Direction*	Type*	Legend	Legend colour*
1B	00 blue	D down	LM laser marked on soft paint	001 1	00 blue
1DS	02 green	U up	LMH laser marked on hard paint	002 2	02 green
etc	03 grey		R reverse printed	003 3	03 grey
	04 yellow	*only for		etc	04 yellow
	06 white	hinge-type	*in case of illumination		06 white
	08 red	caps			08 red
	09 black				09 black
	16 frosted white				etc
	etc				
					*in case of laser marked legends the colour of the soft or hard paint

NOTE:

- The size of the legends listed may not correspond to the actual size.
- If you decide to use one of the standard legends without any adjustments (without a new cliché) on another cap than designated in the table, then there is no start-up cost, for this to apply the cap has to be black and the print white.
- Standard legend colours are white paint on a black cap and black paint on a frosted white cap. Other colour combinations are handled as custom.
- For further information on legends please contact your local distributor or MEC.

PLEASE FIND THE FULL LIST OF AVAILABLE LEGENDS ON MEC WEBSITE www.mec.dk

multimec®

Solid colours



		8	8			8	8
No.	30	32	33	34	38	40	42
Colour	ultra blue	mint green	tele grey	melon	noble red	dusty blue	aqua blue
RAL Code	5002	6029	7046	1028	3002	5014	5021

Metallic Colours

	8	8	8	8
No.	50	53	57	58
Colour	dark blue	light grey	dark grey	bordeaux
RAL Code	No Ral Code	No Ral Code	No Ral Code	No Ral Code

CAP		00	02	03	04	06	08	09	30	32	33	34	38	40	42	50	53	57	58
1A		•	•	•	•	•	•	•											
1B		•	•	•	•	•	•	•											
1C				•			•	•											
1DS	8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1ES/1FS	9	•	•	•	•	•	•	•											
1GAS/1GCS	9	•	•	•	•	•	•	•											
1H				•				•											
1JS	Q	•	•	•	•	•	•	•											
1KS		•	•	•	•	•	•	•											
1M		•	•	•	•	•	•	•											
1NS				•				•											
1PS		•	•	•	•	•	•	•											
1QS/1RS		•		•				•											
1SS/1LS		•	•	•	•	•	•	•											
1TS/1US/1VS	888	•		•			•	•											
1WAS/1WDS/1WPS		•		•			•	•	•					•	•		•	•	
1XS		•	•	•	•	•	•	•											
1ZA				•		•		•	•					•	•	•	•	•	•
1ZB				•		•		•	•					•	•	•	•	•	•
1ZCS	&			•		•	•	•	•					•	•	•	•	•	•
1Z/1ZW		•		•		•	•	•											
10R/10RF + 10Q		•	•	•	•	•	•	•											



multimec[®] 5 series switches



- Through-hole (TH) or surface mount (SMD)
- 50mA/24VDC
- Single pole/momentary
- 10,000,000 operations lifetime (NO function)
- Temperature range:
 - Switch: -40/+160°C
 - LED: -40/+85°C
- IP 67 sealing
- Actuation force: 2.0N, 3.5N, 6.5N
- NO or NC/NO

THROUGH-HOLE (TH) **PCB LAYOUT** 5G illuminated 5G Non-illuminated Min 10,16 Max 12,5 Min 10,16 Max 12,5 1 LED Max 12,5 7,62 2 LED Max 10,3 E SURFACE MOUNT (SMD) **PCB LAYOUT** 5G illuminated Non-illuminated 5G 5E 1 LED 2 LED NORMALLY CLOSED/NORMALLY OPEN FUNCTION NOT FOR SALE IN JAPAN CIRCUIT DIAGRAM • Available for 5E and non-illuminated 5G in 3.5N actuation force. • Same PCB layout as the NO 5E and 5G

Please see colour codes, updates of products and changes of specifications on www.mec.dk

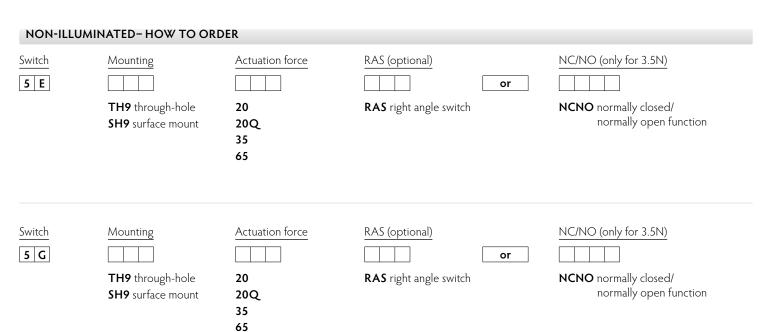
Housing colour is grey



5 series switches

FIGHT ANGLE SWITCHES 5G 5G + 1DS 5G + 1DS

ILLUMINATED - HOW TO ORDER Switch Mounting Actuation force LED Quiet (optional) 5 G TH9 through-hole 20 02 blue Q **82** red **SH9** surface mount 35 22 green 2242 green/yellow only for 2.0N 65 42 yellow 8222 red/green **61** white 8242 red/yellow



Ordering example: 5ESH935 (non-illuminated), 5GTH9658222 (illuminated), 5GSH935NCNO (normally closed/normally open); 5ETH920RAS (right angle) 5ETH920Q or 5GSH92061Q (quiet versions)



RoHS Compatible

	HIGH TEMPERATURE VERSIONS	
	SILVER	GOLD
ELECTRICAL SPECIFICATIONS		
Contact resistance	<30m Ω - typ. 10m Ω	
Insulation resistance	>10M Ω	
Recommended load	0.5-50mA 24VDC	0.5μ-50mA 24VDC
Contact bounce	<2mS - typically 0.5mS	
MECHANICAL SPECIFICATIONS		
Standard actuation force (switch)	3.5N typ	
Max. Actuation force without cap	100N for 10 sec	
Key travel (switch)	1 mm	
Life time (switch)	>10,000,000	
Temperature Range		
Working temperature	Min -40°C Max +160°C	
Storage temperature	Min -40°C Max +160°C	
Soldering IEC 68-2-20	Infrared, vapour phase, wave - max 240°C	Cfor
	max 40 sec or max 260°C for max 30 sec.	
	Soldering iron - max 350°C for max 3 sec.	
	Flux tight.	
ENVIRONMETAL ENDURANCE IEC 68-2	2-3	
Temperature	+40°C	
Humidity	93% RH	
Duration	56 Days	
TEMPERATURE CYCLING IEC 68-2-14		
Temperature limit	Min -55°C - Max +85°C	
Number of cycles	200	
Exposure time at each temperature	10 min	
Recovery time before measurements	16 hrs	
Sealing IEC 529	IP-67	
Cleaning	Standard methods - see usage guidelines	
MATERIAL SPECIFICATIONS - SWITCH	ES	
Housing	PPS UL94V0	
Actuator	PPS UL94V0	
Sealing + spring	Silicone rubber	
Contact spring	Stainless steel	Stainless steel
	+ 3μAg	+ 1μAu
Fixed contacts	SnCu + 2μNI + 3μAg	$SnCu + 2\mu NI + 1\mu Au$
Terminals	SnCu + 2μNI + 3μSn100	

Caps - Material Specifications

MATERIAL	PARTS	TEMP. LIMIT	UL RATING
Polyamide	Actuators for varimec™	Max 160°C	UL94V2



LEDs specifications

5G switches

Colour		Blue	Green	Yellow	White	Red	High Intensity Green
Colour Codes		02	22	42	61	82	29
ABSOLUTE MAXIMUM RA	ATINGS (Ta=25	°C)					
Power	mW	95	75	60	48	65	102.5
Current forward	mA	25	30	25	15	25	25
Forward peak current	mA	100	80	60	100	100	150
Voltage reverse	V	5	5	5	NA	12	5
Operating temperature	°C	-40/+85	-55/+85	-40/+85	-40/+85	-30/+85	-40/+85
Storage temperature	°C	-40/+90	-55/+85	-40/+90	-40/+85	-40/+85	-40/+85
Soldering temperature	°C	245 for max.	10 sec				
ELECTRICAL-OPTICAL C	HARACTERIST	ΓΙCS (Ta=25°C)					
Voltage forward	Typ. V	3.3	2	1.75**	2.85	2	3.3
	Max. V	3.7	2.4	2.35	3.1	2.5	4.1
Current reverse (VR=5V)	Max. μA	50	100	10	NA	100	50
Wave length	nm	470	571	591	NA	633	525
Spread	∆nm	25	NA	15	NA	16	30
Spread angle	degree	120	130	120	150	160	60
Luminous Intensity	Min. mcd	45	18	28.5	71	28	500
	Typ. mcd	112*	35	72*	224*	180*	1000
Optical intensity	Lm/w	NA	NA	NA	36	7	NA

^{*}Max.mcd **Min. V

3F switches	3FXX (for 1		N-1Q-1F	3FXXX (for 1K-1T-1U-1V-1W-1WD)								
Colour		В	G	Υ	W	R	G/Y	R/G	R/Y	G	Υ	R
Colour Codes		00	20	40	65	80	2040	8020	8040	24	46	87
Absolute Maximum Ratings	(Ta=25°C)											
Power	mW	105	70	60	120	60	120	100	120	60	60	120
Current forward	mA	30	20	20	25	20	25	30	25	25	25	50
Forward peak current	mA	150	60**	60**	100	60**	150	120	150	60	60	200
Voltage reverse	V	5	3	3	5	3	5	5	5	5	5	5
Operating temperature	°C	-40/+	35		-40/+85	-25/+85	-40/+85	-55/+100	-40/+85	-40/+85	-40/+85	-40/+85
Storage temperature	°C	-40/+	35		-40/+100	-30/+100	-40/+85	-55/+100	-40/+85	-40/+85	-40/+100	-40/+100
Soldering temperature	°C	260 fc	or max 5	sec			260 for m	nax 2 sec		300 for max 3 sec	260 for m	ax 5 sec
Electrical-Optical Chara	acteristics	(Ta=25	°C)									
Voltage forward	Тур. V	3.8	2.1	2.1	3.8	2.0	2.1	2.0	2.1	2.0*	2.0	2.0***
	Max. V	4.5	3.0	3.0	4.3	3.0	2.8	2.6	2.8	2.4*	2.4	2.4***
Current reverse (VR=5V)	μΑ	10	10	10	50	10	2	2	2	10	10	10
Wave length	nm	466	563	585	NA	650	565/590	630/565	625/590	570	589	624/632
Spread	Δ nm	60	40	40	NA	40	35	35	35	10	NA	20
Spread angle	degree	60	45	45	25	45	60	200	60	100	40	40
Luminous Intensity	Min. mcd	18	9.0	5.6	630	5.6	8	2.2	8	70****	630	400****
,	Typ. mcd	50	25	16	1000	16	25	4.8	25	20****	1250	800****
Orientation	_				horter is the he first colou		is the longe	er pin.				

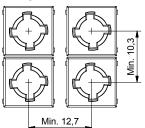
^{**}Pulse width 1ms Duty cycle 1:5, ***/F = 50 mA, **** Luminous Flux mlm B=Blue, G=Green, Y=Yellow, R=Red, W=White

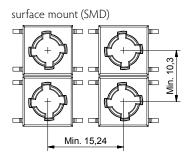
Specifications are subject to change without notice.



Basic switch spacing

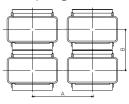






Recommended switch/cap spacing

Switch spacing

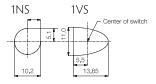




Panel cut-out



Panel cut-out





Spacing examples

multimec

5GT+1B/C+2C/D



multimec

5GS+1B/C+2C/D



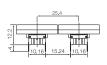
multimec

5GT + 1A/H



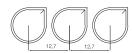
multimec

5GT + 1M



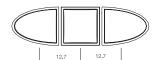
multimec

1NS + 1NS + 1NS



multimec

1VS + 1TS+ 1VS



Cap series	Recommended	Nominal cap dimension	Recommended
	min. switch spacing AxB	WxH	min. panel cut-out
1A/1H	12.7x10.16	12.6x10.1	13.0x10.5
1B/1C+2C/2D	15.24x15.24	15.1x15.1	15.5x15.5
1DS/1ES/1FS	12.7x12.7	ø9.6	ø10.0
1GAS	12.7x11.14	ø11	ø11.4
1GCS	15.14x15.14	ø15	ø15.4
1JS	12.7x12.7	ø9.6	ø10.4
1KS/1KBS/1KCS	15.24x15.24	14.3x14.3	14.7x14.7
1M	25.4x10.16	25.0x10.	25.7x10.5
1NS	12.7x12.7	ø9.8/□4.9	ø10.2/□5.1
1PS/1QS/1RS	15.24x10.16	6.5x12.5	7.0x13.0, R max. 1.0
1SS/1IS/1LS	12.7x12.7	ø6.5	ø7.0
1TS	12.7x12.7	10.6x10.6	11.0x11.0
1US	12.7x12.7	ø10.6	ø11.0
1VS	12.7x12.7	10.6x13.25	11.0x13.65
1WAS/1WPS	12.7x10.3	12.5x6.5	12.9x6.9
1WDS	15.34x10.3	15.2x8.0	15.6x8.4
1XS	12.7x12.7	9.4x7.4	9.8x7.9
1YS	17x17	15x15	16x16
1ZA	18.84x10.3	18.7x10.1	19.4x10.5
1ZB	24.34x12.1	R1=7.4; R2=17.5 90°	R1=7.1; R2=17.5-17.75 90°
1ZCS	14.44x14.44	ø14.3	ø14.7
1Z/1ZW	35.5x35.5; 41.6x41.6	ø29.5	ø30.3
10R/10RF/10RM	40.5x40.5	ø30.0	ø30.6
10Q/10QM	32.5x32.5	22x22	22.5x22.5

multimec®

technical information

Tape & Reel

Pitch:

Tape and reel is available for the parts listed and has the following specifications:

Reel diameter: Ø330mm Tape width: 24mm Tape and reel material:

antistatic or

better

Quantity per reel: see list

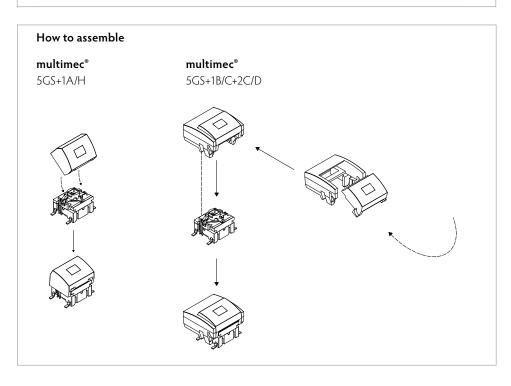
3C/3E/5E/5G multimec*tape & reel

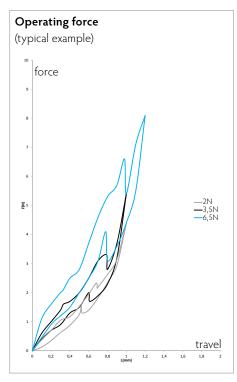
see list

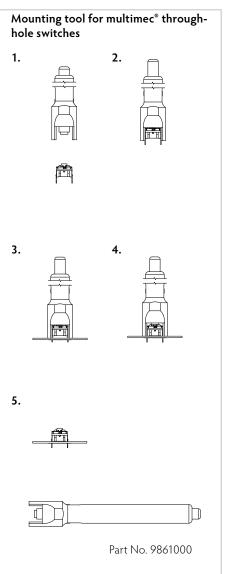
	-		
Part No.	Ordering Code	Pitch	Quantity per reel
3CSH9	3CSH9R	16	500
3ESH9	3ESH9R	16	500
5ESH9XX	5ESH9XXR	16	500
5GSH9XX	5GSH9XXR	16	500
5XSH9XX1SSXX-08.0	5XSH9XXR1SSXX-08.0	20	250
5XSH9XX1SSXX-09.5	5XSH9XXR1SSXX-09.5	20	250
5XSH9XX1SSXX-10.4	5XSH9XXR1SSXX-10.4	20	250
5XSH9XX1SSXX-11.0	5XSH9XXR1SSXX-11.0	20	250
5XSH9XX1SSXX-12.0	5XSH9XXR1SSXX-12.0	20	250
All varimec h <12.5; add R	after part no.	20	250

illuminated 5G multimec®tape & reel

Part No.	Ordering Code	Pitch	Quantity per reel
5GSH9XX02	5GSH9XX02R	20	250
5GSH9XX22	5GSH9XX22R	20	250
5GSH9XX42	5GSH9XX42R	20	250
5GSH9XX61	5GSH9XX61R	20	250
5GSH9XX82	5GSH9XX82R	20	250
5GSH9XX2242	5GSH9XX2242R	20	250
5GSH9XX8222	5GSH9XX8222R	20	250
5GSH9XX8242	5GSH9XX8242R	20	250







Usage guidelines

How to get the best results with MEC Switches?

These guidelines are offered to users of MEC Switches as an aid to ensure successful and reliable switch operation.

Temperature

Both unimec™ and multimec® switches are produced in low and high temperature versions. Please see the technical specifications for details on operating and storage temperatures and soldering guidelines to make sure you select the best switch for your application. When wave soldering is taking place, MEC strongly recommend that the temperature profile is analysed and compared with the temperature rating of the switch. In case of doubt always select the high temperature versions unimec™ 154XX, and multimec® 5XXH9XX. It is also important to monitor the accumulated heat build up from both the pre-heat zones and the solder zone.

Most standard accessories for both unimec™ and multimec® switches are made from ABS plastic with a maximum operating temperature of 65°C. It is strongly recommended that accessories are mounted after soldering of the switch. If this is not possible care must be taken not to overheat the accessories during the soldering process. The 1SS, 1GAS/1GCS and Varimec™ caps are, however, made of high temperature materials and will meet the same temperature specifications as the high temperature switches.

For accessories made from other plastic materials please see multimec * and unimec * technical specifications.

LEDs have their own temperature specifications. When fitted in a high temperature switch the LED will determine the max. operating temperature, i.e. 5GTH93524 has an upper temperature limit of 85°C! This also applies with 3F switches.

Mounting and Dismounting

If switches are to be mounted in rows it is essential that the recommendations regarding spacing are followed. PC board thickness should be 1.4±0.2 mm and terminal hole diameter should be 0.9mm.

All unimec[™] and multimec[®] caps and bezels are easily snapped onto the switch modules and can be changed at a later time with the exception of the unimec 16.700 cap. The same applies to the 3E caps. Once these caps are installed they are not designed to be removed. To do so may cause damage to the switch and the PC board if not done very carefully. If the 16.300 or 16.700 cap must be removed from a unimec[™] alternate action switch, make sure that the switch actuator is in the released, upper position before attempting to remove the cap. This will prevent possible damage to the internal latching pin.

Care must be taken when inserting the 3FT switch and LED assembly into the PC board. Do not press direct on the LED. This will force the LED down into the actuator and risks to cause the switch contacts to remain in the closed position. To correct the fault, the LED must be raised slightly and centered in the actuator to assure unrestricted movement of the actuator. A mounting tool is available for multimec® switches.

Soldering and Cleaning unimec™

Most assembly and field problems experienced by users of unsealed switches are caused by the contamination of the contacts during soldering and cleaning.

Contact contamination may be recognised by an increase in contact resistance and possible intermittent operation of the switch, especially in low power applications. Care must be taken not to submerge the switch in cleaning agents or spray the switch during cleaning. The switch must be protected at all times to prevent contamination by flux or cleaning liquids.

For unimec $^{\text{m}}$ alternate versions we recommend to leave the actuator in the released upper position during soldering. This makes the switch more resistent to overheating.

Soldering and Cleaning multimec®

multimec® switches are fully sealed to IP67 specifications to prevent solder flux and aqueous based cleaning solutions from entering the switch and contaminating the contacts. The switches can be placed on the PC board with other components and wave soldered. multimec® offers a high level of sealing, however, with aqueous solvent solutions care must be taken to avoid the worst case situation with water jets, complete immersion into a liquid with a temperature below the board or surface tension reducing additives.

Recommended cleaning methods are demineralized water. Any surface tension reducing agents, such as soap, must not be used as they risk causing a potential leakage of the switch.

Soldering - Through Hole Versions

Hand soldering: Max. 350°C for max. 3 sec., this applies for both low temperature and high temperature versions.

Wave soldering: heat built up in the switch during pre-heating and soldering must not exceed the maximum operating temperature of the switch. If, for some reason, a high pre-heating temperature is required, MEC recommend the high temperature switches. In any case peak temperature must not exceed 260°C, and soldering time is max 10 sec.

Soldering - Surface Mount Versions

For all methods - infrared, convection and vapour phase. The upper limit 260°C/30 sec must be observed. The soldering temperature profile must have moderate temperature gradients.

RoHS Compliance

As of 1 July 2006 MEC has completed the conversion to RoHS compliance. For more info please see our homepage www.mec.dk

Temperature Limits:

Low temperature switch 115° CHigh temperature switch 160° CLEDs $85/100^{\circ}$ CAccessories $65/85/160^{\circ}$ C

Packaging

unimec $^{\!\scriptscriptstyle\mathsf{TM}}$ and multimec $^{\!\scriptscriptstyle\mathsf{o}}$ switches are packed in rigid tubes of 50 pieces each.

A box contains 1.000 pcs.

The surface mount versions of multimec*switches with a height up to 12.5mm can also be delivered on tape/reel. Each reel contains 250/500 pcs.



Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России, а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научноисследовательскими институтами России.

С нами вы становитесь еще успешнее!

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