

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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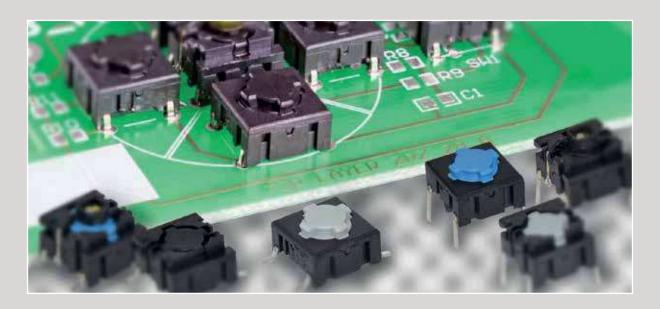
10 MILLION ACTUATIONS IP 67 SEALING

NORMALLY OPEN (NO) OR

NORMALLY CLOSED/NORMALLY OPEN (NC/NO)

THROUGH-HOLE RIGHT ANGLE VERSION

QUIET CONTACT OPTION WITH 2.0N



multimec® 5 series is the new generation of 3A, 3F, 4A and 4F switch. In principle the multimec® 5 series is very similar to the 3 series - it has the same pin layout, the same dimensions and the same electrical specifications.

The four main updates are the cap retention system and actuator, three standard actuation forces, one temperature range and possibility of normally closed/normally open function.





5E

5G







- 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

All dimensions in mm

oierances -/+0.2mm

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

RIGHT ANGLE SWITCHES PCB LAYOUT 5E 5G 5G + 1SS5G + 1DS 13,9 multimec® 5 series has only normally open (NO) non-illuminated right angle 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 NON-ILLUMINATED-HOW TO ORDER Switch RAS (optional) NC/NO (only for 3.5N) Mounting Actuation force

5 E or TH9 through-hole 20 RAS right angle switch NCNO normally closed/ normally open function SH9 surface mount 20Q 35 65 Switch Actuation force RAS (optional) NC/NO (only for 3.5N) Mounting 5 G RAS right angle switch TH9 through-hole 20 **NCNO** normally closed/ 20Q normally open function SH9 surface mount

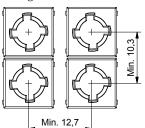
Ordering example: 5ESH935 (non-illuminated), 5GTH9658222 (illuminated), 5GSH935NCNO (normally closed/normally open); 5ETH920RAS (right angle) 5ETH920Q or 5GSH92061Q (quiet versions)

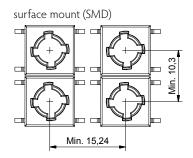
35 65



Basic switch spacing

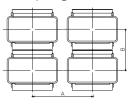






Recommended switch/cap spacing

Switch spacing

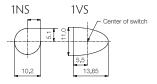




Panel cut-out



Panel cut-out





Spacing examples

multimec

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



multimec

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



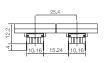
multimec

5GT + 1A/H



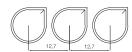
multimec

5GT + 1M



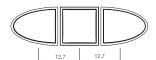
multimec

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

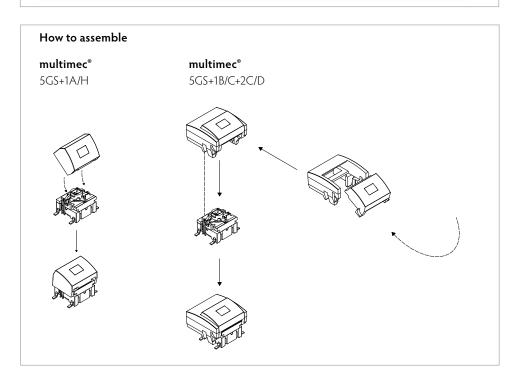
3C/3E/5E/5G multimec®tape & reel

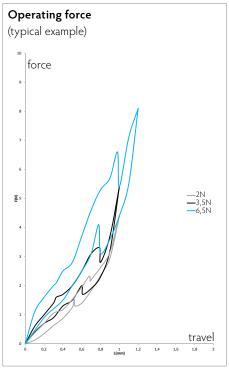
see list

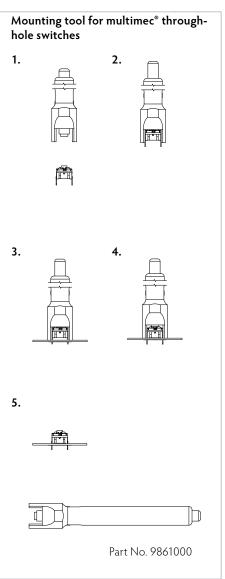
	!		
Part No.	Ordering Code	Pitch	Quantity per reel
3CSH9	3CSH9R	16	500
3ESH9	3ESH9R	16	500
5ESH9XX	5ESH9XXR	16	500
5GSH9XX	5GSH9XXR	16	500
5XSH9XX1SSXX-08.0	5XSH9XXR1SSXX-08.0	20	250
5XSH9XX1SSXX-09.5	5XSH9XXR1SSXX-09.5	20	250
5XSH9XX1SSXX-10.4	5XSH9XXR1SSXX-10.4	20	250
5XSH9XX1SSXX-11.0	5XSH9XXR1SSXX-11.0	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









RoHS Compatible

Contact resistance <30 m Ω - typ. 10 m Ω	ROHS Compatible						
Contact resistance Contact resistance Necommended load O.5.50mA 24VDC No.5.50mA 24VDC No.5.50		HIGH TEMPERATUR	RE VERSIONS				
Contact resistance <30 m Ω - typ. 10 m Ω		SILVER		GOLD	NC/NO		
Insulation resistance >10M \(O \)	ELECTRICAL SPECIFICATIONS						
Recommended load 0.5-50mA 24VDC 0.5μ-50mA 24VDC	Contact resistance	$<$ 30m Ω - typ. 10m Ω					
Contact bounce <2mS - typically 0.5mS	Insulation resistance	>10M Ω					
Max Actuation force (switch) 2.0N, 3.5N, 6.5 N 3.5N Max Actuation force (switch) 2.0N, 3.5N, 6.5 N 3.5N Max Actuation force without cap 115N for 60 sec (according to MIL-PRF-22885H) 100N for 10 sec Key travel (switch) 1 mm 10,000,000 cycles 1,000,000 cycles Stepherature	Recommended load	0.5-50mA 24VDC		0.5μ-50mA 24VDC			
Standard actuation force (switch) 2. ON, 3.5 N, 6.5 N 3. 5N Max. Actuation force without cap 115N for 60 sec (according to MIL-PRF-22885H) 100N for 10 sec Key travel (switch) 1 mm 10,000,000 cycles 71,000,000 cycles 72,000,000 cycles 72,000,000 cycles 73,000,000 cycles 74,000,000 cycles 74,000,000 cycles 75,000,000 cycles 75,000 cycles 75,000 cycles 75,000 cycles 75,000 cycles 75,000 cycles 75,000 cycles 7	Contact bounce	<2mS - typically 0.5mS					
Max. Actuation force without cap (Actuation force without cap (Exp. travel (switch)) I mm J1,000,000 cycles J1,000 cycles	MECHANICAL SPECIFICATIONS						
Key travel (switch) 1 mm >10,000,000 cycles >10,000,000 cycles >10,000,000 cycles >10,000,000 cycles Solution S	Standard actuation force (switch)	2.0N, 3.5N, 6.5 N			3.5N		
Section Sect	Max. Actuation force without cap	115N for 60 sec	(according to MIL-F	PRF-22885H)	100N for 10 sec		
Working temperature Working temperature Min -40°C Max +160°C Min -40°C Min -40°C Max +160°C Min -40°C Max +160°C Min -40°C Max +160°C Min -40°C Min -40°C Max +160°C Min -40°C Mi	Key travel (switch)	1 mm					
Working temperature Min -40°C Max +160°C Storage temperature Min -40°C Max +160°C Stowith LED (working & storage temp) Min -30°C Max +85°C Soldering (through-hole switch) Infrared, vapour phase, wave - max 240°C for max 40 sec or max 260°C for max 30 sec. Soldering iron - max 350°C for max 3 sec. Flux tight. SOLDERING (SMD) JEDEC J-STD-020C SENVIRONMETAL ENDURANCE IEC 68-2-3 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 Sexposure time at each temperature Number of eycles Exposure time at each temperature 10 min Recovery time before measurements 16 hrs Sealing IEC 529 IP-67 Cleaning MATERIAL SPECIFICATIONS - SWITCHES Housing Approx PPS UL94V0 Sealing + Spring Silicone rubber Sonat spring Stainless steel Stainless steel	Life time (switch)	>10,000,000 cycles			>1,000,000 cycles		
Storage temperature Min -40°C Max +160°C SG with LED (working & storage temp) Min -30°C Max +85°C Soldering (through-hole switch) EC 68-2-20 8:	TEMPERATURE RANGE						
Soldering (through-hole switch) Min -30°C Max +85°C IEC 68-2-20 8:	Working temperature	Min -40°C Max +160°C					
IEC 68-2-20 8: Infrared, vapour phase, wave - max 240°C for max 40 sec or max 40 sec or max 260°C for max 30 sec. Soldering iron - max 350°C for max 3 sec. Flux tight. SOLDERING (SMD) JEDEC J-STD-020C	Storage temperature	Min -40°C Max +160°C					
Infrared, vapour phase, wave - max 240°C for max 40 sec. Soldering iron - max 350°C for max 30 sec. Soldering iron - max 350°C for max 3 sec. Flux tight. SOLDERING (SMD) JEDEC J-STD-020C ENVIRONMETAL ENDURANCE IEC 68-2-3 Temperature	5G with LED (working & storage temp)	Min -30°C Max +85°C					
max 40 sec or max 260°C for max 30 sec. Soldering iron - max 350°C for max 3 sec. Flux tight. SOLDERING (SMD) JEDEC J-STD-020C ENVIRONMETAL ENDURANCE IEC 68-2-3 Temperature	Soldering (through-hole switch)	IEC 68-2-20 8:					
Soldering iron - max 350°C for max 3 sec. Flux tight. SOLDERING (SMD) JEDEC J-STD-020C ENVIRONMETAL ENDURANCE IEC 68-2-3 Temperature		Infrared, vapour phase	, wave - max 240°C for				
Flux tight. SOLDERING (SMD) JEDEC J-STD-020C ENVIRONMETAL ENDURANCE IEC 68-2-3 Temperature		max 40 sec or max 260°C for max 30 sec.					
SOLDERING (SMD) JEDEC J-STD-020C ENVIRONMETAL ENDURANCE IEC 68-2-3 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 - SWITCHES Housing PPS UL94V0 Sealing + spring Silicone rubber Scalings Stainless steel Stainless steel		Soldering iron - max 35	Soldering iron - max 350°C for max 3 sec.				
Temperature +40°C		Flux tight.					
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 - SWITCHES Housing PPS UL94V0 Sealing + spring Silicone rubber Contact spring Stainless steel Stainless steel	SOLDERING (SMD)	JEDEC J-STD-020C					
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 - SWITCHES Housing PPS UL94V0 Actuator PPS UL94V0 Sealing + spring Silicone rubber Contact spring Stainless steel Stainless steel	ENVIRONMETAL ENDURANCE IEC 68-2-3	3					
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 - SWITCHES Housing PPS UL94V0 Actuator PPS UL94V0 Sealing + spring Silicone rubber Contact spring Stainless steel Stainless steel	Temperature	+40°C					
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 - SWITCHES Housing PPS UL94V0 Actuator PPS UL94V0 Sealing + spring Silicone rubber Contact spring Stainless steel Stainless steel	·	93% RH					
Temperature limit Min -55°C - Max +85°C 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 - SWITCHES Housing PPS UL94V0 Actuator PPS UL94V0 Sealing + spring Silicone rubber Contact spring Stainless steel Stainless steel	Duration	56 Days					
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Number of cycles 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 - SWITCHES Housing PPS UL94V0 Actuator PPS UL94V0 Sealing + spring Silicone rubber Contact spring Stainless steel Stainless steel		Min -55°C - Max +85°C					
Exposure time at each temperature Recovery time before measurements Sealing IEC 529 IP-67 Cleaning Standard methods - see usage guidelines MATERIAL SPECIFICATIONS - SWITCHES Housing PPS UL94V0 Actuator PPS UL94V0 Sealing + spring Silicone rubber Contact spring Stainless steel Stainless steel	·	200					
Sealing IEC 529 IP-67 Cleaning Standard methods - see usage guidelines MATERIAL SPECIFICATIONS - SWITCHES Housing PPS UL94V0 Actuator PPS UL94V0 Sealing + spring Silicone rubber Contact spring Stainless steel Stainless steel	Exposure time at each temperature	10 min					
Cleaning Standard methods - see usage guidelines MATERIAL SPECIFICATIONS - SWITCHES Housing PPS UL94V0 Actuator PPS UL94V0 Sealing + spring Silicone rubber Contact spring Stainless steel Stainless steel	Recovery time before measurements	16 hrs					
MATERIAL SPECIFICATIONS - SWITCHES Housing PPS UL94V0 Actuator PPS UL94V0 Sealing + spring Silicone rubber Contact spring Stainless steel Stainless steel	Sealing IEC 529	IP-67					
Housing PPS UL94V0 Actuator PPS UL94V0 Sealing + spring Silicone rubber Contact spring Stainless steel Stainless steel	Cleaning	Standard methods - see					
Actuator PPS UL94V0 Sealing + spring Silicone rubber Contact spring Stainless steel Stainless steel	MATERIAL SPECIFICATIONS - SWITCHES						
Sealing + spring Silicone rubber Contact spring Stainless steel Stainless steel Stainless steel							
Contact spring Stainless steel Stainless steel	~	PPS UL94V0					
	Sealing + spring	Silicone rubber					
2. 4	Contact spring	Stainless steel		Stainless steel			
+ 3μAg + 1μAu		+ 3μAg		+ 1μAu			
Fixed contacts SnCu + 2µNI + 3µAg SnCu + 2µNI + 1µAu	Fixed contacts	SnCu + 2μNI + 3μAg		SnCu + 2μNI + 1μAu			
Terminals SnCu + 2μNl + 3μSn100	Terminals	SnCu + 2μNI + 3μSn100	0				

Caps, Bezels & Legends - Material Specifications

MATERIAL	PARTS	TEMP. LIMIT	UL RATING
ABS	1A, 1B, 1C, 1DS, 1ES, 1FS, 1H, 1JS, 1KS, 1LS, 1M, 1NS, 1PS, 1QS, 1RS, 1TS, 1US, 1VS, 1WAS, 1WDS, 1WPS, 1XS, 1Z, 1ZA, 1ZB, 1ZCS, 1ZW, 2C, 2D, 2K, reflectors for 1KBS/1KCS and 1YS	Max. 65°C	UL94HB
Polycarbonate	All lenses and transparent colour caps, lids for 1KBS/1KCS	Max. 85°C	UL94HB
Polyamide	1GAS/1GCS, 1SS, 2SS	Max. 160°C	UL94V2
Legends Adhesion	DS/EN ISO 2409 Class 1 & ASTM D3359 Class 4B		

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 $^{\infty}$ and unimec $^{\infty}$ 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°C High temperature switch LEDs $85/100^{\circ}\text{C}$ Accessories $65/85/160^{\circ}\text{C}$

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.