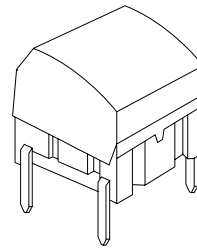


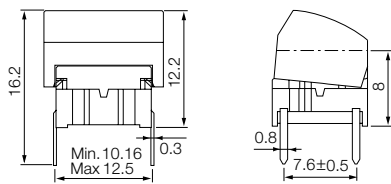
multimec® 3A + 1A/1H/1M



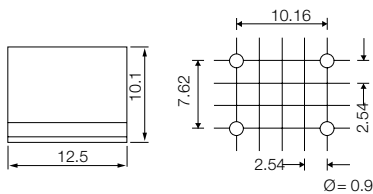
Technical Data:

- 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

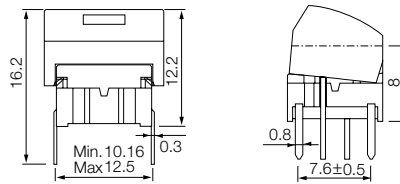
Dimensions (through-hole)



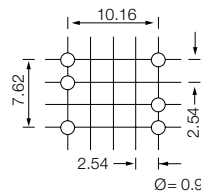
PCB layout



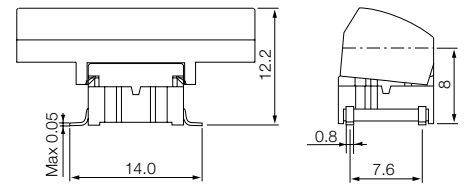
Dimensions (w/LED)



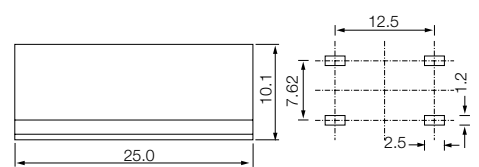
PCB layout (top view)




Dimensions (SMD)



PCB layout




HOW TO ORDER

3 A	<input type="checkbox"/>	<input type="checkbox"/>	+	1 A	<input type="checkbox"/>	For 1A only:	
Switch	Mounting	L 6 low temp.		Cap	00 blue	30 ultra blue	50 metal dark blue
	T through-hole	H 9 high temp.			02 green	40 dusty blue	53 metal light grey
	S surface mount				03 grey	42 aqua blue	57 metal dark grey
					04 yellow	32 mint green	58 metal bordeaux
					06 white	33 tele grey	
					08 red	34 melon	
					09 black	38 noble red	

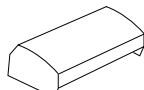
Standard versions:

3ATL6, 3ATH9, 3ASH9, 3ASH9R (tape/reel)

3 A	T	<input type="checkbox"/>	+	1 H	<input type="checkbox"/>	<input type="checkbox"/>
Switch	Mounting	L 6 low temp.		LED	Cap	Lens
	T through-hole	H 9 high temp.		00 blue		1 transparent
				20 green		2 green
				40 yellow		4 yellow
				80 red		8 red
						09 black

Standard versions:

3ATL600, 3ATL620, 3ATL640, 3ATL680

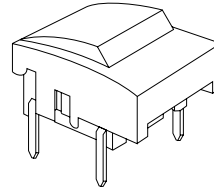
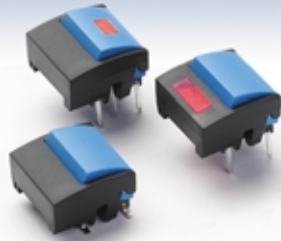
3 A	<input type="checkbox"/>	<input type="checkbox"/>	+	1 M	<input type="checkbox"/>
Switch	Mounting	L 6 low temp.		Cap	<input type="checkbox"/>
	T through-hole	H 9 high temp.			00 blue
	S surface mount				02 green
					03 grey
					04 yellow
					06 white
					08 red
					09 black

Standard versions:

3ATL6, 3ATH9, 3ASH9, 3ASH9R (tape/reel)

Ordering example: 3ATL680 + 1H098

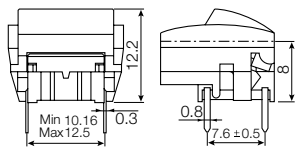
multimec® 3A + 1B/1C + 2A/2B



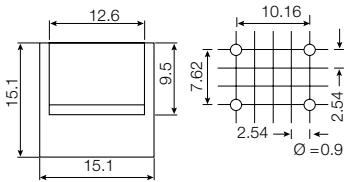
Technical Data:

- 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

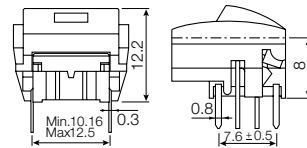
Dimensions (through-hole)



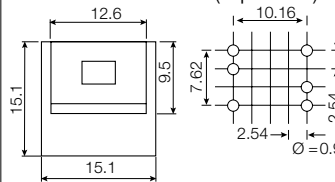
PCB layout



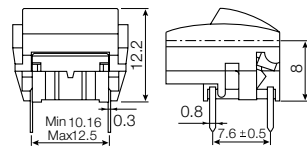
Dimensions w/LED (in switch)



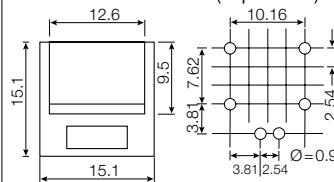
PCB layout (top view)



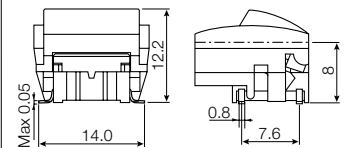
Dimensions w/LED (PCB mounted)



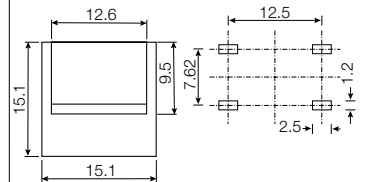
PCB layout (top view)





Dimensions (SMD)




PCB layout





HOW TO ORDER

3 A	<input type="checkbox"/>	<input type="checkbox"/>	+	1 B	<input type="checkbox"/>	+	2 A	<input type="checkbox"/>	For 1B and 2A only:	
Switch	Mounting	L 6 low temp.		Cap	00 blue		Bezel	00 blue	30 ultra blue	50 metal dark blue
	T through-hole	H 9 high temp.			02 green			02 green	40 dusty blue	53 metal light grey
	S surface mount				03 grey			03 grey	42 aqua blue	57 metal dark grey
					04 yellow			04 yellow	32 mint green	58 metal bordeaux
					06 white			06 white	33 tele grey	
					08 red			08 red	34 melon	
					09 black			09 black	38 noble red	


Standard versions:
3ATL6, 3ATH9, 3ASH9, 3ASH9R (tape/reel)

3 A	<input type="checkbox"/>	<input type="checkbox"/>	+	1 C	<input type="checkbox"/>	+	2 A	<input type="checkbox"/>	
Switch	T through-hole	L 6 low temp.		LED	00 blue		Bezel	00 blue	
		H 9 high temp.		00 blue	02 green			02 green	
				20 green	03 grey			03 grey	
				40 yellow	04 yellow			04 yellow	
				80 red	06 white			06 white	
					08 red			08 red	
					09 black			09 black	

Standard versions:
3ATL600, 3ATL620, 3ATL640, 3ATL680

3 A	<input type="checkbox"/>	<input type="checkbox"/>	+	1 B	<input type="checkbox"/>	+	2 B	<input type="checkbox"/>	<input type="checkbox"/>
Switch	T through-hole	L 6 low temp.		Cap	00 blue		Bezel	00 blue	Lens
	S surface mount	H 9 high temp.			02 green			02 green	1 transp.
					03 grey			03 grey	2 green
					04 yellow			04 yellow	4 yellow
					06 white			06 white	8 red
					08 red			08 red	
					09 black			09 black	

Standard versions:
3ATL6, 3ATH9, 3ASH9, 3ASH9R

+	2 B X X X	<input type="checkbox"/>	<input type="checkbox"/>
	LED for 2B bezel	20 green	
		40 yellow	
		80 red	

Ordering example: 3ATL640 + 1C094 + 2A04

	Low Temperature Versions		High Temperature Versions	
	Silver	Gold	Silver	Gold
Electrical Specifications				
Contact resistance	<30 mΩ - typically 10mΩ			
Insulation resistance	>10M Ω			
Recommended load	0.5-50mA 24VDC	0.5μ-50mA 24VDC	0.5-50mA 24VDC	0.5μ-50mA 24VDC
Contact bounce	<2mS - typically 0.5mS			
Mechanical Specifications				
Standard actuation force (switch)	3.0N typ.			
Max. actuation force without cap	100N for 10 sec.			
Key travel (switch)	1 mm			
Life time (switch)	>10.000.000 cycles			
Temperature Range				
Working temperature	Min. -40°C Max. +115°C		Min. -40°C Max. +160°C	
Storage temperature	Min. -40°C Max. +115°C		Min. -40°C Max. +160°C	
Soldering IEC 68-2-20	Wave -max. 260°C for max. 10 sec., please refer to usage guidelines		Infrared, vapour phase, wave - max. 260°C for max. 30 sec.	
	Soldering iron - max. 350°C for max. 3 sec. Flux tight.		Soldering iron - max. 350°C for max. 3 sec. Flux tight.	
Environmental 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 such as freon and water			
Material Specifications - Switches				
Housing	PBT UL94VO		PPS UL94VO	
Actuator	PBT UL94VO		PPS UL94VO	
Sealing + spring	Silicone rubber			
Contact spring	Stainless steel + 3μAg	Stainless steel + 3μAg + 1μAu	Stainless steel + 3μAg	Stainless steel + 3μAg + 1μAu
Fixed Contacts	SnCu + 2μNi + 3μAg	SnCu + 2μNi + 3μAg + 1μAu	SnCu + 2μNi + 3μAg	SnCu + 2μNi + 3μAg + 1μAu
Terminals	SnCu + 2μNi + 3μSnPb	SnCu + 2μNi + 3μSnPb	SnCu + 2μNi + 3μSnPb	SnCu + 2μNi + 3μSnPb
Material Specifications - Caps & Bezels				
Material	Parts	Temp limit	UL rating	
ABS Standard	Standard parts except the below mentioned	Max 65°C	UL94HB	
Polycarbonate	All lenses	Max. 85°C	UL94V1	
LCP	Actuator of 3E	Max. 160°C	UL94VO	
PPS	1S, 2S	Max. 160°C	UL94VO	
Polyamide	Actuator of Varimec , 1GA/ 1GC	Max. 160°C	UL94VO	
Legends Adhesion	ISO Class.: 1/ ASTM Class.: 4B DIN EN ISO 2409			

Specifications are subject to change without notice