

1B+2C/2D

Square solutions • rocker-action • long travel



DISTINCTIVE FEATURES

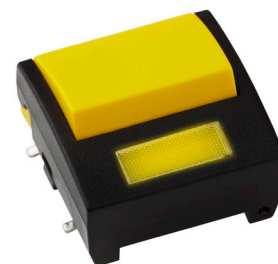
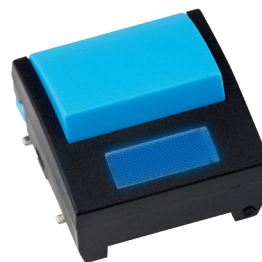
Square solution 15.1 x 15.1 mm

h=12.2 mm

Long travel - 2 mm

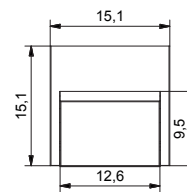
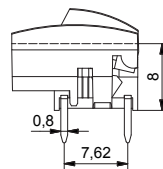
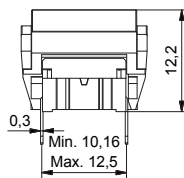
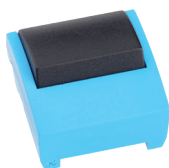
Full illumination option with the cap

Illumination option in bezel with an LED on the PCB

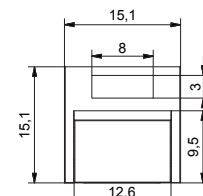
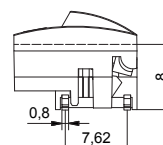
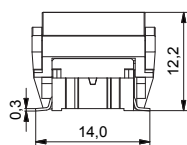


SWITCH SPECIFICATIONS : see Multimec™ 5 series.

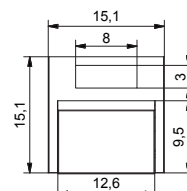
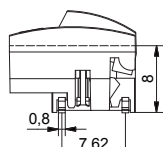
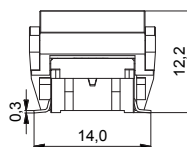
5G+1B+2C - TH



5G+1B+2D - SMD



5G+1B+2D - SMD - W/LED



1B+2C/2D

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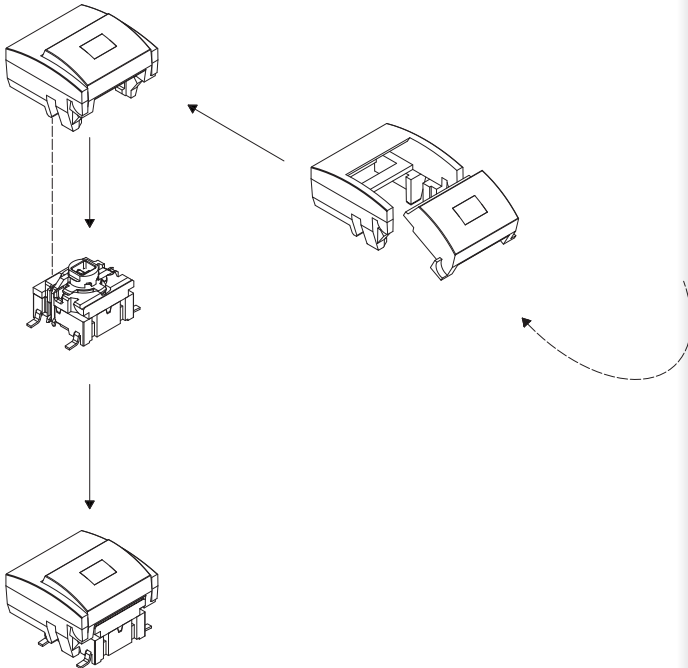


MOUNTING

- Panel cut-out : min. 15.5 x 15.5 mm
- Switch spacing AxB : min. 15.4 x 15.4 mm



ASSEMBLY



MATERIALS

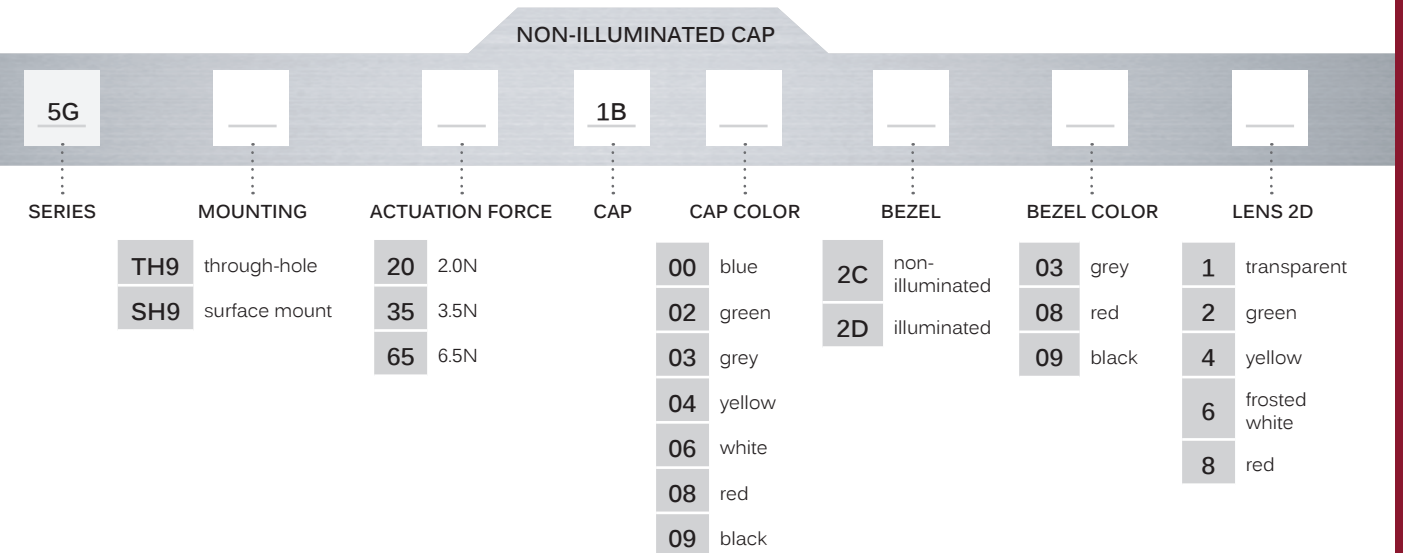
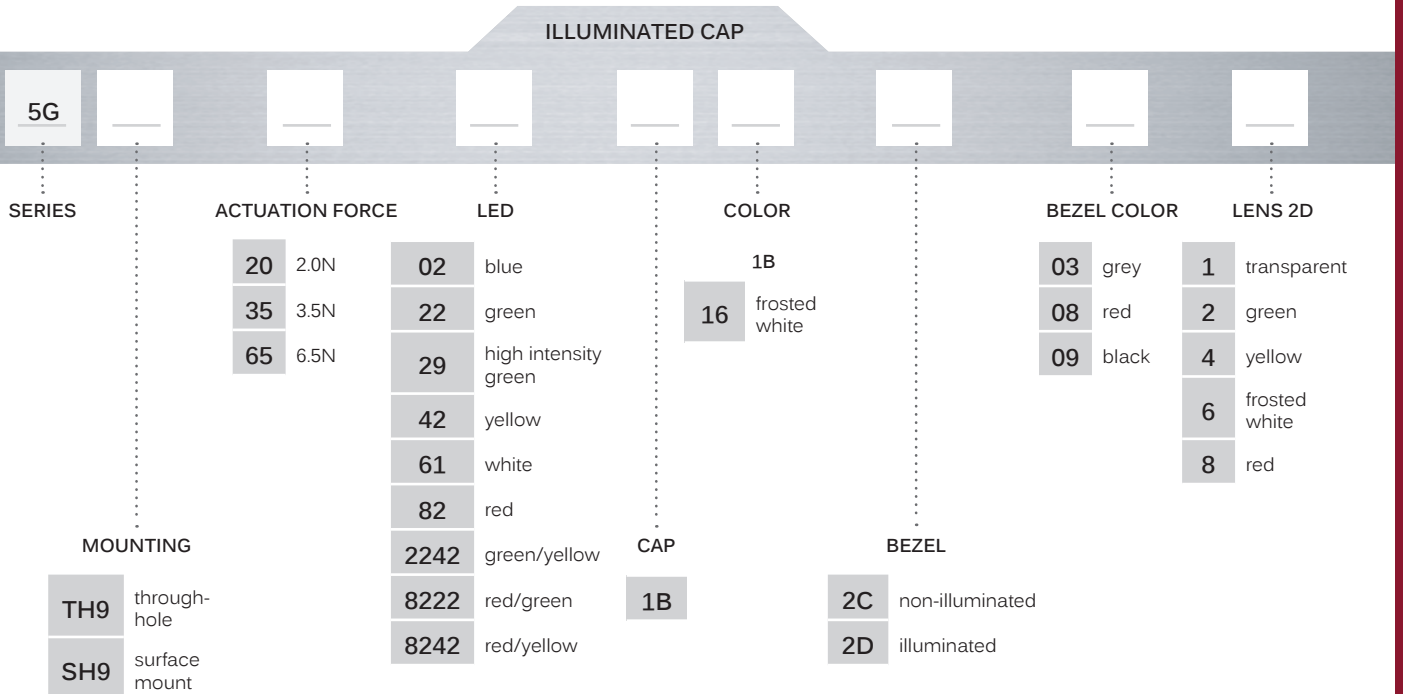
- Cap :
 - solid color : ABS UL94HB
 - illuminated : polycarbonate UL94HB
- Lens : polycarbonate UL94HB
- Bezel :
 - solid color : ABS UL94HB

1B+2C/2D

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BUILD YOUR PART NUMBER



ABOUT THIS SERIES

⚠ **Notice** : please note that not all combinations of above numbers are available. Contact APEM for more information. For more information on legends see the next two pages.

Legends

Available for Multimec caps



STANDARD LEGENDS

STANDARD LEGENDS										
LEGEND	1DS09_	1FS096R_	1ZB09D_ 1ZB16DLMH_	1ZCS_	1Z_ 1ZW_	10A_	10C_	10D_	10Q_ 10QM16_	10R_ & 10RF_ 10RM16_
0	000	000								
1	001	001								
2	002	002								
3	003	003								
4	004	004								
5	005	005								
6	006	006								
7	007	007								
8	008	008								
9	009	009								
#	107	107								
*	019	019								
→	033									
←	133									
↑	034									
↓	134									
↙	135	135								
+						054			054	054
-						059			059	059
▲			136		136	136				
⏻	123	123		123*	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
ESC				051						
ON						116				
OFF						117				
OK				118*	118		118	118	118	118
SET				119						
MENU				120						
FUNC				121						
HOME				122						

STANDARD OPTIONS

- 1DS: pad printed
- 1FS: reverse printed
- 1ZB: pad printed / laser marked
- 1ZCS: pad printed / *reverse printed / *laser marked
- 1Z & 1ZW: pad printed / laser marked
- 10A: pad printed / laser marked
- 10C: pad printed / laser marked
- 10D: UV printed / laser marked
- 10R(F) & 10Q: pad printed / reverse printed
- 10RM & 10QM: metal symbol

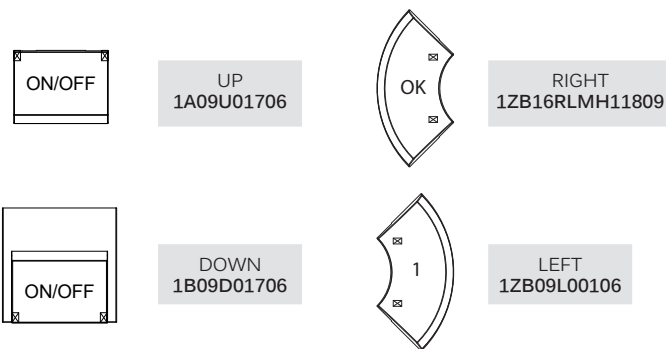


HOW TO ORDER

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, D, R or L) needs to be added to the part number to refer to the position of the hinges in relation to the legend. See samples:

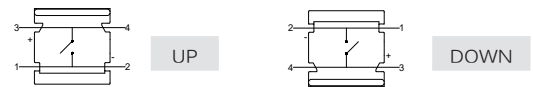
Rocker-action caps without a lens: 1A, 1B, 1M, 1ZA and 1ZB



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 have both negative and positive print options. E.g. 1FS096R00009
- **Option 3 - metal symbol:** Only available for 10RM and 10QM (therefore the "M"). E.g. 10RM16059

ORIENTATION OF THE SWITCH



STANDARD AND CUSTOM 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.

STANDARD LEGENDS

CAP	CAP COLOR	DIRECTION*	TYPE*	LEGEND	LEGEND COLOR*	
1DS	00 Blue	D Down	UV UV printed	001 1	00 Blue	
1FS	02 Green	U Up	LM Laser marked on soft paint	002 2	02 Green	
...	03 Grey	R Right	LMH Laser marked on hard paint	003 3	03 Grey	
	04 Yellow	L Left	R Reverse printed	... etc	04 Yellow	
	06 White	*Only for hinge-type caps			06 White	
	08 Red		*In case of illumination		08 Red	
	09 Black				09 Black	
	16 Frosted white				... Etc	
	...				*In case of reverse printed and laser marked legends the colour of the paint	














































Notice: 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 or programming) on another cap than designated in the table, then there is no cliché or programming cost, for this to apply the cap has to be black and the print white.

For further information on legends please contact your local distributor or MEC.

Solid colors

Available for Multimec™ caps

CAP	CODE	Colour / RAL Code																	
		Blue / 5012	green / 6018	Grey / 7004	Yellow / 1023	White / 9010	Red / 3000	Black / 9004	Ultra blue / 5002	Mint green / 6029	Tele grey / 7046	Melon / 1028	Signal white / 9003	Noble red / 3002	Dusty blue / 5014	Aqua blue / 5021	Metal dark blue / No ral code	Metal light grey / No ral code	Metal dark grey / No ral code
																			
		00	02	03	04	06	08	09	30	32	33	34	36	38	40	42	50	53	57
1A		•	•	•	•	•	•	•											
1B		•	•	•	•	•	•	•											
1DS		•	•	•	•	•	•	•	•	•	•	•		•	•	•		•	•
1ES/1FS				•			•	•											
1GAS		•	•	•	•	•	•	•											
1GCS								•											
1H				•				•											
1JS				•				•											
1KS		•	•	•	•	•	•	•											
1LS								•											
1M				•			•	•											
1NS								•											
1PS				•		•	•	•											
1QS				•				•											
1RS				•															
1SS		•	•	•	•	•	•	•											
1TS/1US/1VS		•		•			•	•											
1WAS/ 1WDS/1WPS				•				•											
1XS								•											
1ZA				•		•		•											
1ZB				•		•		•	•						•			•	
1ZCS				•		•	•	•	•						•			•	
1Z/1ZW								•											
10A				•			•	•											
10C								•					•						
10D				•		•		•											
10R/10RF + 10Q			•	•			•	•											

The RAL Codes mentioned are the codes nearest to the solid colors in the multimec™ range.

Cap & Bezel Specifications

Multimec™ caps

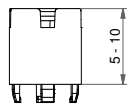
ACCESSORY SPECIFICATIONS

MATERIAL	PARTS	TEMP. LIMIT	UL RATING
ABS	Solid color 1A, 1B, 1DS, 1ES, 1FS, 1H, 1JS, 1KS, 1LS, 1M, 1NS, 1PS, 1QS, 1RS, 1TS, 1US, 1VS, 1WAS, 1WDS, 1WPS, 1XS, 1Z, 1ZA, 1ZB, 1ZCS, 1ZW, 10A, 10C, 10Q, 10R, 10RF and AQCS Bezels 2C, 2D and 2K, reflectors for 1KBS, 1KCS, 1YS and 1YAS	Max 65 °C Max 149 °F	UL94HB
Polycarbonate	All lenses and transparent colour caps, lids for 1KBS & 1KCS	Max 85 °C Max 185 °F	UL94HB
Polyamide	1GAS, 1GCS, 1SS and 2SS	Max 160 °C Max 320 °F	UL94V2
Legends adhesion	DS/EN ISO 2409 Class 1 & ASTM D3359 Class 4B		

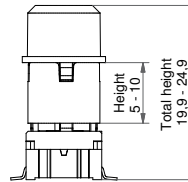
EXTENDERS



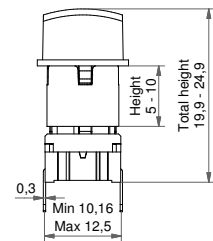
5 mm, 6 mm,
7 mm, 8 mm,
9 mm, 10 mm



2SS

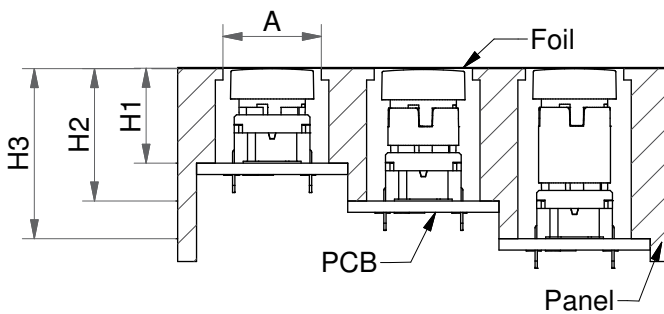


SMD + 2SS+1DS



TH+2SS+1TS

HOW TO USE 1GAS/1GCS + 2SS UNDER FOIL



- A=We recommend space for travel of the foil and leave the area free from adhesive.
- H=We recommend you to calculate this dimension from the top of the PCB to the inner top of the panel.

2SS CAN BE USED WITH ALL 5G-TYPE SNAP-ON CAPS

All 2SS extenders are stackable giving the possibility to match most overall heights.

CAP SERIES	ORIGINAL HEIGHT (H1)	HEIGHT WITH A SINGLE EXTENDER (H2,H3)
1DS/1ES/1FS	14.9	19.9-24.9
1GAS/1GCS	12.5	17.5-22.5
1KS/1KBS/1KCS	19.1 ; 20.2 ; 20.1	24.1; 25.2; 25.1-29.1; 30.2; 30.1
1NS	14.9	19.9-24.9
1TS/1US/1VS	14.9	19.9-24.9
1WAS/1WDS/1WPS	15.7	20.7-25.7
1XS	18.5	23.5-28.5
1ZCS	11.7	16.7-21.7
10C	13.7	18.7-23.7
10D	12.0	17.0-22.0

Cap & Bezel Specifications

Multimec™ caps



HOW TO ORDER

EXTENDERS

SWITCH	MOUNTING	ACTUATION FORCE	LED (OPTIONAL)	CAP	EXTENDER 2SS HEIGHT
5G	TH9 Through-hole SH9 Surface mount	20 35 65	02 blue 22 green 42 yellow 61 white 82 red 2242 green/yellow 8222 red/green 8242 red/yellow	See the table on the previous page	05 06 07 08 09 10