The 10Q/10QM series are 22x22mm square caps with a low building height of 11mm:

- **10Q** has a flat top
- **10QM** has a flat top with a metal plate that leaves a 1mm rim.

Optional parts to the cap series:

- **Spacer** improves activation and sealing functionality (necessity dependent on front panel thickness and design considerations)
- **Sealing** is only necessary when front panel sealing (IP67) is required.

The cap series is designed to be flush with the front panel to give a neat and aesthetic look. Caps can also be front panel sealed to IP67.

10Q/10QM provide many options regarding illumination. As LEDs need to be placed on the PCB to have an even illumination, it is easy to customise your design.

There is full illumination with frosted white 10Q cap and legend illumination with either reverse-printed 10Q or metal legend on 10QM. In case of the legend illumination, there is a ring illumination acting as a light guide.

10Q/10QM cap series is based on Multimec® 5G series PCB mounted switches that have 10 million operating cycles, three standard actuation forces (2.0, 3.5 and 6.5N), and are sealed to IP67. Switches are single pole momentary and can handle more than 100N robustness. The 5G switches have two function options: normal open or normal closed/normal open.

Standard legend options for 10Q/10QM

⏻	–	+	CANCEL	ENTER
OK	ON/OFF	RESET	START	STOP

The 10R/10RF/10RM series are **30mm round caps** with a low total height of 11mm:

- **10R** has a slightly rounded top.
- **10RF** has a flat top with slightly sharper edges.
- **10RM** has a flat top with a metal plate that leaves a 1mm rim.

Optional parts to the cap series:

- **Spacer** improves activation and sealing functionality (necessity dependent on front panel thickness and design considerations)
- **Sealing** is only necessary when front panel sealing (IP67) is required.

The cap series is designed to be flush with the front plate to give a neat and aesthetic look. Caps can also be front panel sealed to IP67.
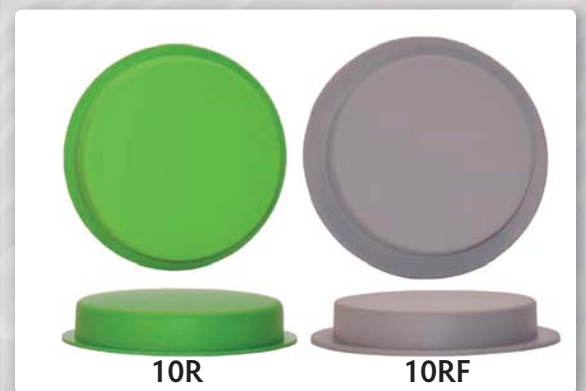
10R/10RF/10RM provide many options regarding illumination. As LEDs need to be placed on the PCB to have an even illumination, it is easy to customise your design.

There is full illumination with frosted white 10R and 10RF caps, and legend illumination with either reverse-printed 10R and 10RF or metal legend on 10RM. In case of the legend illumination, there is a ring illumination acting as a light guide.

10R/10RF/10RM cap series is based on Multimec® 5G series PCB mounted single pole momentary switches that have 10 million operating cycles, three standard actuation forces (2.0, 3.5, 6.5N and 2.0N quiet), sealed to IP67 and can handle more than 100N robustness. The 5G switches have two function options: normal open or normal closed/normal open.

10R   10RF

Standard legend options for 10R/10RF/10RM				
⏻	−	+	CANCEL	ENTER
OK	ON/OFF	RESET	START	STOP

multimec®

Large round cap with optional metal legend

5G+10R/10RF/10RM

- Option of having IP67 front panel sealing
- Ø30 mm; h =11 mm
- Material: ABS/polycarbonate
- Temp. Range:
  - Solid cap: -40/+65°C
  - Transparent cap: -40/+85°C
- Panel cut-out: 10R/10RF/10RM-Ø30.6
- Height of the spacer=3.9mm (designed for 2mm front panel)
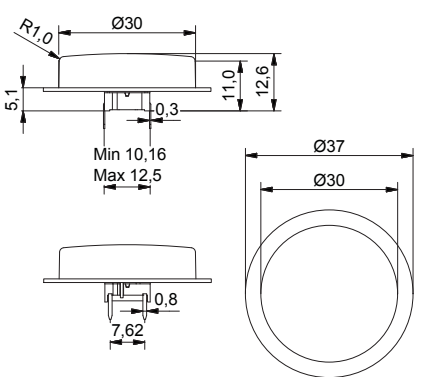
- Cap series is based on Multimec 5G switch:
  - TH or SMD
  - Momentary/single pole
  - 10,000,000 operations
  - Actuations force: 2.0N, 3.5N 6.5N or 2.0N quiet
  - Temp. range: -40/+160°C
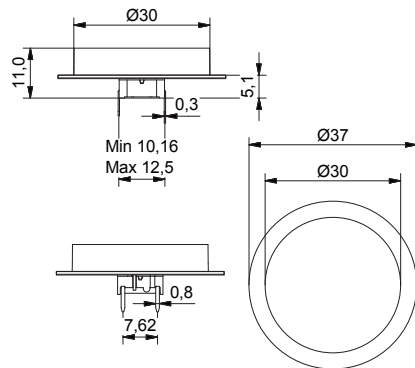 - IP 67 sealing
  - NO or NC/NO
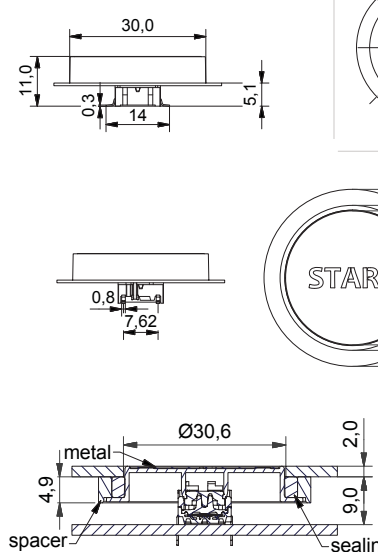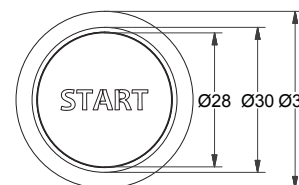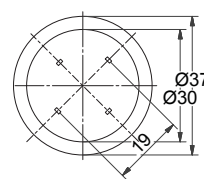
All dimensions in mm

DIMENSIONS

TH + 10R

TH + 10RF

SMD w/LED + 10RM

PLACEMENT OF LEDS ON PCB

ILLUMINATED – HOW TO ORDER

Switch	Mounting	Actuation force	LED		Cap	Sealing	Colour code		Spacer
5 G				+				+	1 0 R Y
	TH9 through-hole	20	01 blue		10R	W sealing optional	16 frosted white		optional
	SH9 surface mount	35	22 green						
		65	42 yellow						
		Q*	61 white		10RF				
			82 red						
			2242 green/yellow						
			8222 red/green		10RM				
			8242 red/yellow						

Legend options:
017 ON/OFF	048 CANCEL	118 OK
018 STOP	054 +	123 ⏻
031 START	059 -	
038 RESET	105 ENTER	

*For an illuminated quiet 2.0N switch add Q to the end of the switch part number.

NON-ILLUMINATED– HOW TO ORDER

Switch	Mounting	Actuation force		Cap		Sealing	Colour code			Spacer
5 G			+						+	1 0 R Y
	TH9 through-hole	20		10R	10RF	W sealing optional	00 blue	06 white		optional
	SH9 surface mount	20Q					02 green	08 red		
		35					03 grey	09 black		
		65					04 yellow			

Ordering example:
5GSH965+10R08 non-illuminated OR 5GTH93501+10RF16R05409 with illumination and legend
Please see colour codes, updates of products and changes of specifications on www.mec.dk

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Fax: (+34) 902 433 088
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multimec®

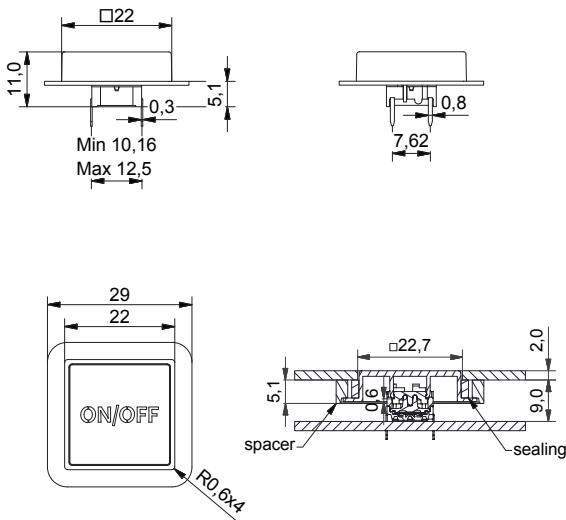Large square cap with optional metal legend

5G + 10Q/10QM

- Option of having IP67 front panel sealing
- 22 mm x 22 mm; h =11 mm
- Material: ABS/polycarbonate
- Temp. Range:
  - Solid cap: -40/+65°C
  - Transparent cap: -40/+85°C
- Panel cut-out: 10Q/10QM-22.5 x 22.5
- Height of the spacer=2.9/3.9mm (flush design for 3 or 2mm front panel)

All dimensions in mm

- Cap series is based on Multimec 5G switch:
  - TH or SMD
  - Momentary/single pole
  - 10,000,000 operations
  - Actuations force: 2.0N, 3.5N, 6.5N or 2.0N quiet
  - Temp. range: -40/+160°C
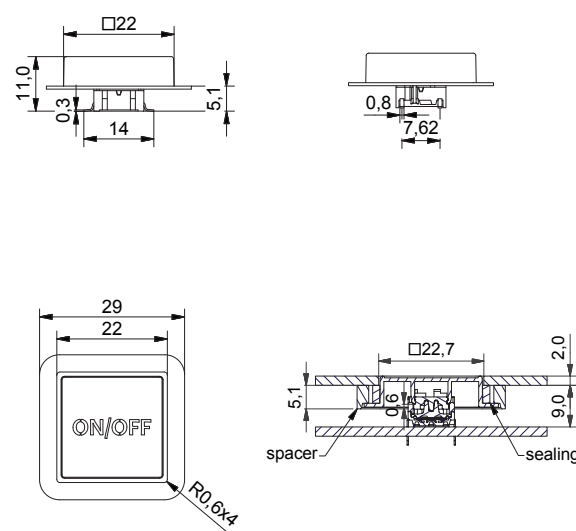 - IP 67 sealing
  - NO or NC/NO

DIMENSIONS
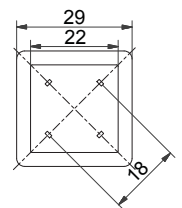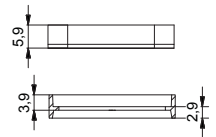
TH + 10Q

SMD w/LED + 10QM

PLACEMENT OF LEDS ON PCB

SPACER 10QY

the two different heights are achieved by flipping the spacer around

ILLUMINATED – HOW TO ORDER

Switch	Mounting	Actuation force	LED		Cap	Sealing	Colour code		Spacer
5 G	☐☐☐	☐☐	☐☐☐☐	+	☐☐☐☐	☐	☐☐	+	1 0 Q Y

	TH9 through-hole	**20**	**01** blue		**10Q**	**W** sealing optional	**16** frosted white		optional
	SH9 surface mount	**35**	**22** green						
		65	**42** yellow						
		Q*	**61** white		**10QM**				
			82 red						
			2242 green/yellow			Legend options:			
			8222 red/green						
			8242 red/yellow						

Legend options:

017 ON/OFF	**048** CANCEL	**118** OK
018 STOP	**054** +	**123** ⏻
031 START	**059** -	
038 RESET	**105** ENTER	

*For an illuminated quiet 2.0N switch add Q to the end of the switch part number.

NON-ILLUMINATED– HOW TO ORDER

Switch	Mounting	Actuation force		Cap	Sealing	Colour code			Spacer
5 G	☐☐☐	☐☐☐	+	☐☐☐	☐	☐☐		+	1 0 Q Y

	TH9 through-hole	**20**		**10Q**	**W** sealing optional	**00** blue	**06** white	optional
	SH9 surface mount	**20Q**				**02** green	**08** red	
		35				**03** grey	**09** black	
		65				**04** yellow		

Ordering example:
5GSH920+10Q00 non-illuminated OR 5GTH93582+10QM16031 with illumination
Please see colour codes, updates of products and changes of specifications on www.mec.dk

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