

MSG series

Rugged switch guards for switch series 12000 - 3500 - 600H - 6000



DISTINCTIVE FEATURES

Robust

For harsh environments

Modern, patented design



GENERAL SPECIFICATIONS

- APEM SAS patented design
- Operating temperature : -40 °C to +85 °C (-40 °F to +185 °F)
- Storage temperature : -55 °C to +85 °C (-67 °F to +185 °F)
- Salt spray : IEC 60068-2-11, test KA, 96 hours
- Mechanical life : 20,000 cycles
- Switch guards are designed to prevent accidental lever operation on switches with Ø 11.9 (.468) or Ø 12 (.472) threaded bushing and lever length 17.5 (.688) outside bushing.
When the guard is raised, the lever can be operated freely.
When the guard is fully depressed, the lever is reset/locked in a stable position.
Note : For correct switch operation, the switch guard should be adjusted properly (see "Mounting" below).



MATERIALS

- Support plate : black stainless steel
- Cap : thermoset

APEM products may be recycled at end-of-life for the re-claiming of valuable metal components.



PANEL CUT-OUT

FOR BUSHING WITH KEYWAY

K



FOR FLATTED BUSHING

F



The company reserves the right to change specifications without notice.

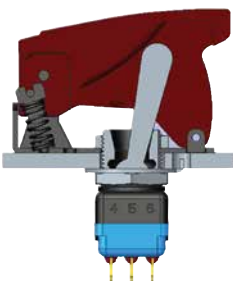


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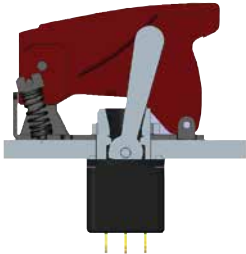
MOUNTING



Standard



With K sealing option



With X408 sealing option



BUILD YOUR PART NUMBER

MSG								
SERIES	NUMBER OF POSITIONS		CUT-OUT TYPE		CUT-OUT ORIENTATION			MARKING
	2	2 positions	K	For bushing with keyway	N	North		XX No marking
	3	3 positions	F	For flatted bushing	S	South		Markings on request.
	SWITCH GUARD TYPE		CUT-OUT ORIENTATION		COLORS			MARKING COLOR
	1	Locked in upper position			1	Blue	X	No marking
	2	Locked in down position			2	Black	1	Blue
	3	Locked in center position (3 positions only)			3	Green	2	Black
	4	Locked in upper and down positions			4	Grey	3	Green
	5	Locked in either position			5	Yellow	4	Grey
	Maximum lever width: - 6 mm (.236) on "1","2","3","4" switch guard type - 9.5 mm (.374) on "5" switch guard type				6	Red	5	Yellow
					7	White	6	Red
					8	Orange	7	White
					9	Orange	8	Orange



ABOUT THIS SERIES

- On the following pages, you will find successively basic part numbers and options in the same order as in above chart.
- Notice** : please note that not all combinations of above numbers are available. Refer to the following pages for further information.
 - Mounting accessories** : supplied with the switch or to order separately (see "Hardware" section of website).

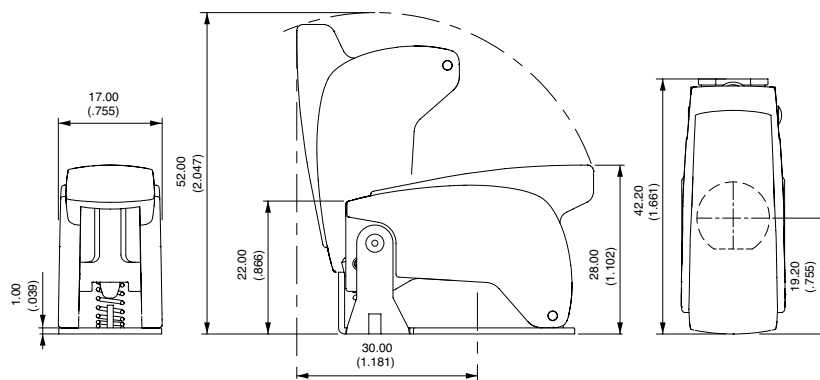
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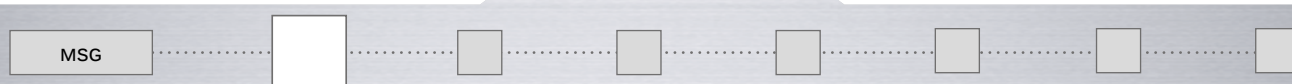
DIMENSIONS



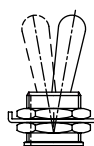
Note : Ø 1.80 mm holes for wiring a seal are standard on all models.



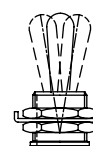
NUMBER OF POSITIONS



- 2 2 positions
- 3 3 positions



2



3

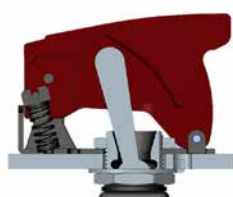
SWITCH GUARD TYPE



- 1 Locked in upper position
- 2 Locked in down position
- 3 Locked in center position (3 positions only)
- 4 Locked in upper and down positions
- 5 Locked in either position

Maximum lever width:

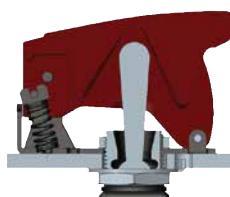
- 6 mm (.236) on "1","2","3","4" switch guard type
- 9.5 mm (.374) on "5" switch guard type



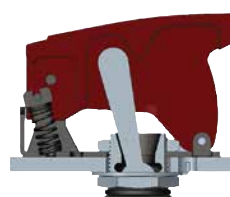
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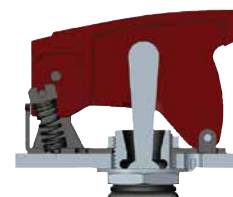
2



3



4



5

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CUT-OUT TYPE



- K For bushing with keyway
- F For flatted bushing

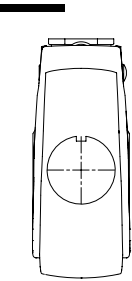
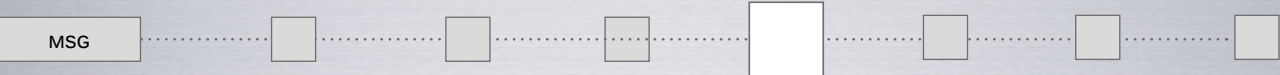


K

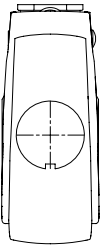


F

CUT-OUT ORIENTATION

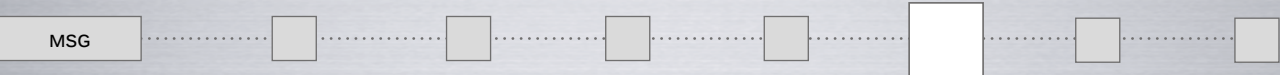


N



S

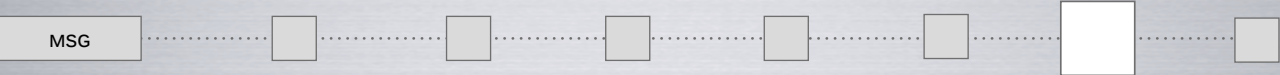
COLORS



- 1 Blue
- 2 Black
- 3 Green
- 4 Grey
- 5 Yellow
- 6 Red
- 7 White
- 9 Orange

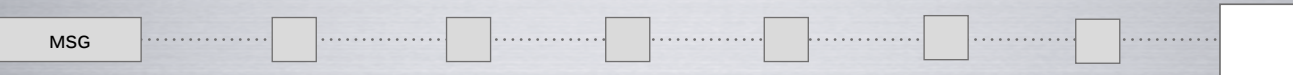


MARKING



- XX No marking
- On request.

MARKING COLOR



- | | | | | | |
|----|------------|---|--------|---|--------|
| XX | No marking | 3 | Green | 6 | Red |
| 1 | Blue | 4 | Grey | 7 | White |
| 2 | Black | 5 | Yellow | 9 | Orange |