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

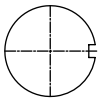
- Support plate : black stainless steel
- Cap : thermoset

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

PANEL CUT-OUT

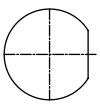
FOR BUSHING WITH KEYWAY

K



FOR FLATTED BUSHING

F



The company reserves the right to change specifications without notice.

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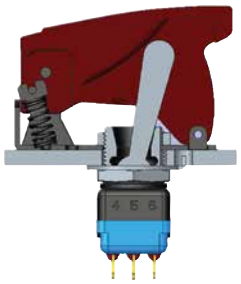
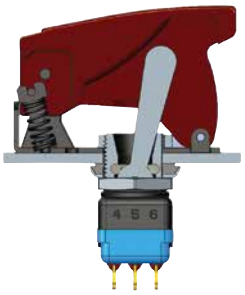
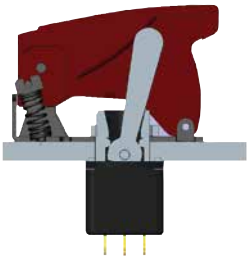
MOUNTING



Standard



With **K** sealing option



With **X408** sealing option

BUILD YOUR PART NUMBER

MSG [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

SERIES

NUMBER OF POSITIONS

2	2 positions
3	3 positions

CUT-OUT TYPE

K	For bushing with keyway
F	For flatted bushing

MARKING

XX	No marking

Markings on request.

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

.

CUT-OUT ORIENTATION

N	North
S	South

COLORS

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

MARKING COLOR

X	No marking
1	Blue
2	Black
3	Green
4	Grey
5	Yellow
6	Red
7	White
9	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.

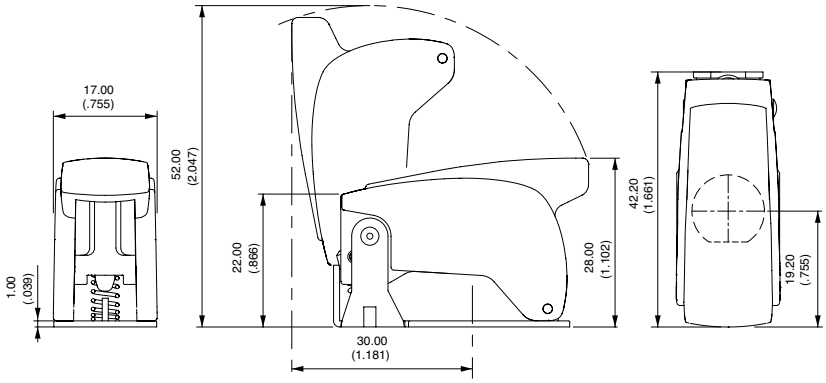
Mounting accessories : supplied with the switch or to order separately (see "Hardware" section of website).

MSG series

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

DIMENSIONS

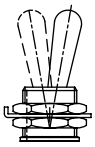
Note : Ø 1.80 mm holes for wiring a seal are standard on all models.



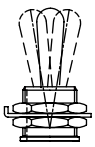
NUMBER OF POSITIONS

MSG [ ] [ ] [ ] [ ] [ ] [ ] [ ]

2	2 positions
3	3 positions



2



3

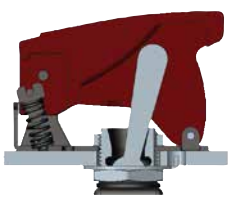
SWITCH GUARD TYPE

MSG [ ] [ ] [ ] [ ] [ ] [ ] [ ]

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

1



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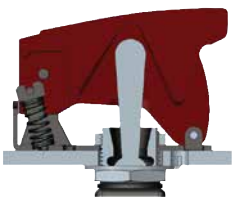

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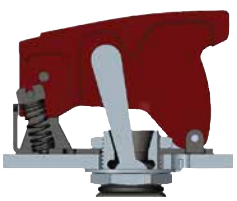
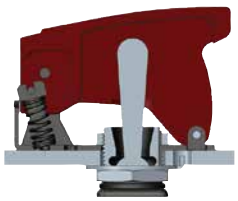


4



5

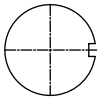
MSG series

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

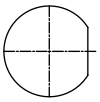
CUT-OUT TYPE

MSG [ ]

K	For bushing with keyway
F	For flatted bushing



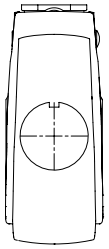
K



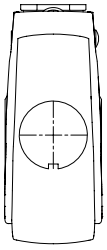
F

CUT-OUT ORIENTATION

MSG [ ]



N



S

COLORS

MSG [ ]

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

MARKING

MSG [ ]

XX	No marking

On request.

MARKING COLOR

MSG [ ]

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