![Chipsmall logo]

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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FM series

Snap-in rocker switches - panel cut-out 19 x 13 (.750 x .508)

Distinctive features and specifications

❑ **Illuminated and non-illuminated**

❑ **For class II appliances**

❑ **VDE and UL approved**

❑ **Protection against moisture by double-shell case**

When the switch is submitted to moisture (drops, condensation), the double-shell case conducts the liquid outside, thus protecting the contact area and terminals. The light dripping inside the equipment resulting from this should be evacuated by adequate arrangement on back of panel**.**
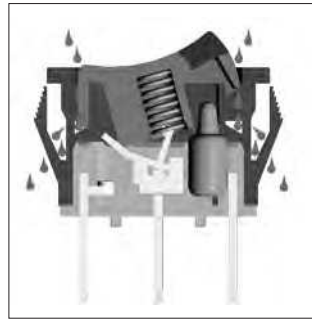
❑ **Protection by boot**

In case of sand or splashing water, the best protection consists of insulating the rocker from these aggressive elements. This can be achieved with transparent PVC boot **U5720**. Order separately, see section H.

AGENCY APPROVALS

EN 61058-1

Availability : functions 1 and 6

Marking : approved models are standard marked.

Dimensions : first dimensions are in mm while inches are shown as bracketed numbers.

Packaging unit : 50 pieces.

The company reserves the right to change specifications without notice.

Snap-in rocker switches - panel cut-out 19 x 13 (.750 x .508)

Single pole - non-illuminated

- Approved ratings (functions 1 and 6) :
  VDE : 10(4)A 250VAC T85°C - **UL** : 6A 250VAC & 125VAC T65°C
- Max. contact rating :
  - functions 1 and 6 : see above.
  - function 3 : 4A 250VAC
  - functions 8 and 9 : 6A 250VAC
- Initial contact resistance : 20mΩ max.
- Insulation resistance : 1.000 MΩ min. at 500VDC
- Dielectric strength : - functions 1 and 6 : 2.500 Vrms between terminals
  - functions 3, 8 and 9 : 1.500 Vrms between terminals
- Electrical life at full load : 10 000 cycles

- Operating temperature :
  -20°C to +85°C
- Case, frame, rocker : PA6/6
- Contacts : silver
- Terminals : silver plated

- Panel cut-out :

Panel thickness	Dim. Y	Dim. Z
0,75 to 1,25 mm	19,2 +0/-0,1	12,9 +0,15/-0
1,25 to 2 mm	19,4 +0/-0,1	12,9 +0,15/-0
2 to 3 mm	19,8 +0/-0,1	12,9 +0,15/-0

FM	C			A			0	0	

SERIES

Electrical functions

1	ON	-	OFF
3	MOM	-	OFF
6	ON	-	ON
8	ON	OFF	MOM
9	ON	OFF	ON

Rocker

C Non illum.
Concave

Contacts

A Silver

Terminals

2 Solder lug
8 Quick-conn.
9 Straight PC
(funct. 1 & 6)

Frame colour

2 Black

Others : on request.

Rocker colours

1	Blue
2	Black (std)
3	Green
4	Grey
5	Yellow
6	Red (std)
7	Ivory
7/1	White
9	Orange

Lamp

0 None

Lens colour

0 No lens

Marking *

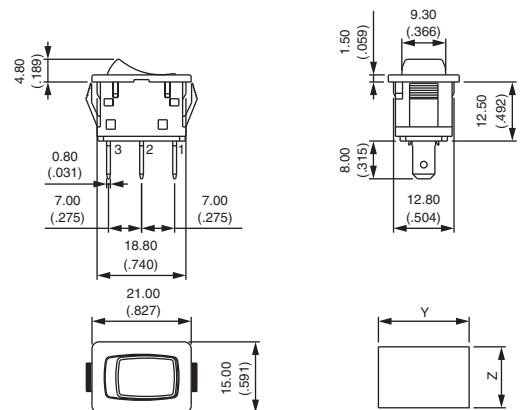| 000	None
001	
002	
003	
004	
005	

* Colour of marking : white for black rockers - black for other colours - Other : on request.

D

Single throw and double throw switch

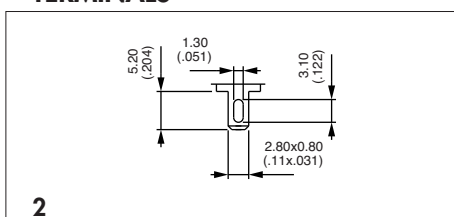|	1-2		2-3
FMC1	ON	-	OFF
FMC3	MOM	-	OFF
FMC6	ON	-	ON
FMC8	ON	OFF	MOM
FMC9	ON	OFF	ON

4.80 (.189)
0.80 (.031)
7.00 (.275)
7.00 (.275)
18.80 (.740)
21.00 (.827)
15.00 (.591)

9.30 (.366)
1.50 (.059)
12.50 (.492)
8.00 (.315)
12.80 (.504)

Shown with quick-connect terminals

TERMINALS

5.20 (.204)
1.30 (.051)
3.10 (.122)
2.80x0.80 (.11x.031)

2
Solder lug

7.00 (.275)
4.70x0.80 (.185x.031)

8
Quick-connect

1.20 x 0.80 (.047 x .031)
13.00 (.512)
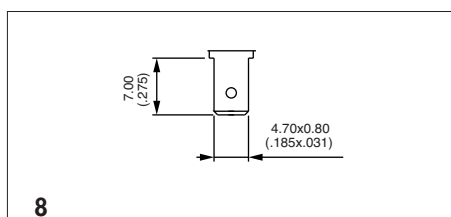
9
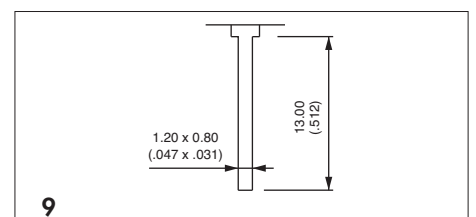Straight PC (functions 1 and 6 only)

FM series

Snap-in rocker switches - panel cut-out 19 x 13 (.750 x .508)

Single pole - illuminated

- Approved ratings :
  VDE : 10(4)A 250VAC T85°C - **UL** : 6A 250VAC & 125VAC T65°C
- LED types available :
  3,3V (4V max.) 10mA LED (resistor to be series connected by the user)
  5V or 12V LED with integrated resistor
- Initial contact resistance : 20mΩ max.
- Insulation resistance : 1.000 MΩ min. at 500VDC
- Dielectric strength : 2.500 Vrms between terminals
- Electrical life at full load : 10 000 cycles
- Operating temperature: - 20°C to + 85°C
- Case, frame and rocker : PA6/6

- Lens : PC
- Contacts : silver
- Terminals : silver plated
- Lamp terminal : no plating
- Fluorescent lamp for blue or green lens, neon lamp for other colours
- Panel cut-out :

Panel thickness	Dim. Y	Dim. Z
0,75 to 1,25 mm	19,2 +0/-0,1	12,9 +0,15/-0
1,25 to 2 mm	19,4 +0/-0,1	12,9 +0,15/-0
2 to 3 mm	19,8 +0/-0,1	12,9 +0,15/-0

FM	L	1	8	A					

SERIES

Electr. function
1 ON - OFF

Contacts
A Silver

Rocker colour
1 Blue
2 Black (std)
3 Green
4 Grey
5 Yellow
6 Red (std)
7 Ivory
7/1 White
9 Orange

Lens colour
1 Blue *
3 Green *
5 Yellow
6 Red
8 Translucent
9 Orange
* w. fluorescent lamp

Lamp
A 220V neon
B 220V fluor.
C 110V neon
D 110V fluor.

Marking *
000 None
001 ☐0

Rocker
L Illumin. concave

Terminals
8 Quick-connect

Frame colour
2 Black
Others : on request.

LED 3,3V 10mA
E Blue
F Red/green
G Green
H Yellow
J White
K Red
L Orange
No resistor**

LED 5V
N Green
P Yellow
Q Red

LED 12V
T Green
U Yellow
V Red

* Colour of marking : white for black rockers - black for other colours - Other : on request.

** Resistor value $= \dfrac{\text{supply voltage - LED forward voltage}}{\text{LED forward current}}$

Illuminated switches - quick-connect terminals

FML1   ON - OFF

4.80 (.189)
0.80 (.031)
7.00 (.275)
7.00 (.275)
18.80 (.740)
21.00 (.827)
15.00 (.591)

9.30 (.366)
1.50 (.059)
12.50 (.492)
8.00 (.315)
12.80 (.504)

1 2 3

For LED models, terminal 2 = cathode (-), terminal 3 = anode (+)

D