FM series

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

DISTINCTIVE FEATURES

For class II appliances
VDE and UL approved
Protection against moisture by double-shell case
Illuminated or non-illuminated
Optional sealing boot

ELECTRICAL AND GENERAL SPECIFICATIONS

- Approved ratings (functions 1 and 6) :
  VDE : 10(4) A 250 VAC T85 °C - UL : 6 A 250 VAC & 125 VAC T 65°C
- Max. contact rating :
  - functions 1 and 6 : see above.
  - function 3 : 4 A 250 VAC
  - functions 8 and 9 : 6 A 250 VAC
- LED types available :
  3.3 V (4 V max.) 10 mA LED (resistor to be series connected by the user)
  5 V or 12 V LED with integrated resistor
- Initial contact resistance : 20 mΩ max.
- Insulation resistance : 1,000 MΩ min. at 500 VDC
- 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 (-4 °F to +185 °F)

MATERIALS

- Case, frame, rocker : PA6/6
- Contacts : silver
- Terminals : silver plated
- Lens : PC
- Lamp terminal : no plating
- Fluorescent lamp for blue or green lens, neon lamp for other colors

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

The company reserves the right to change specifications without notice.

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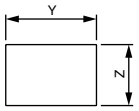
AGENCY APPROVALS

EN 61058-1

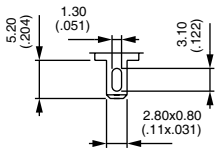
Availability : functions 1 and 6.
Marking : approved models are standard marked.

PANEL CUT-OUT

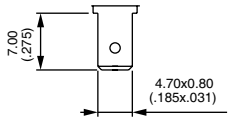


Panel thickness	Dim. Y	Dim. Z
0.75 to 1.25 mm	19.2 +0/-0.1	12.9 +0.15/-0
1.25 to 2 mm	19.4 +0/-0.1	12.9 +0.15/-0
2 to 3 mm	19.8 +0/-0.1	12.9 +0.15/-0

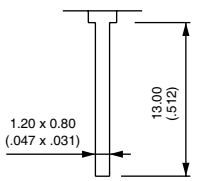
TERMINALS



2
Solder lug



8
Quick-connect



9
Straight PC
(functions 1 and 6 only)

FM series

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

BUILD YOUR PART NUMBER

NON-ILLUMINATED
ILLUMINATED SEE NEXT PAGES

BASIC PART NUMBER

FM	C		
SERIES	ROCKER	ELECTRICAL FUNCTIONS	TERMINALS

ROCKER

C	Non illuminated Concave

ELECTRICAL FUNCTIONS

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

TERMINALS

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

OPTIONS

A			0	0	
CONTACTS	FRAME COLOR	ROCKER COLORS	LENS COLOR	LAMP	MARKING

CONTACTS

A	Silver

FRAME COLOR

2	Black

Others : on request.

ROCKER COLORS

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

LENS COLOR

0	No lens

LAMP

0	None

MARKING

000	None
001	0
002	0 —
003	O I
004	I 0 II
005	OFF ON

ABOUT THIS SERIES

On the following pages, you will find successively basic part numbers of switches 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.

A sealing boot is available to protect the switches against sand or splashing water. Part number U7720. See “Sealing boots“ section of website.

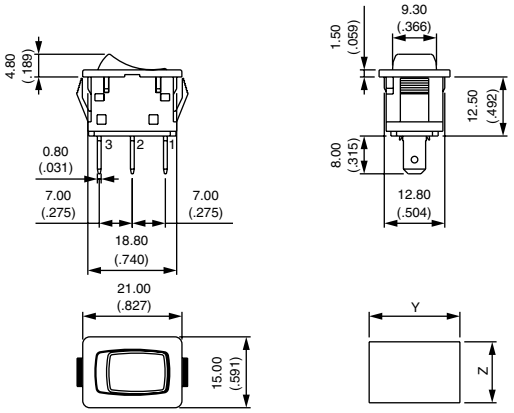
FM series

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

NON-ILLUMINATED
QUICK-CONNECT TERMINALS

	Single pole	1-2		2-3
	FMC18	ON	-	OFF
	FMC38	MOM	-	OFF
	FMC68	ON	-	ON
	FMC88	ON	OFF	MOM
	FMC98	ON	OFF	ON

For solder lug terminals, replace 8 with 2 (FMC•2)
For straight PC terminals, replace 8 with 9 (FMC•9)



CONTACT MATERIALS

BASIC P/N

A Silver

FRAME COLOR

BASIC P/N

2 Black

Others : on request

ROCKER COLORS

BASIC P/N

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

LENS COLOR

BASIC P/N

0 No lens

FM series

Snap-in rocker switches •
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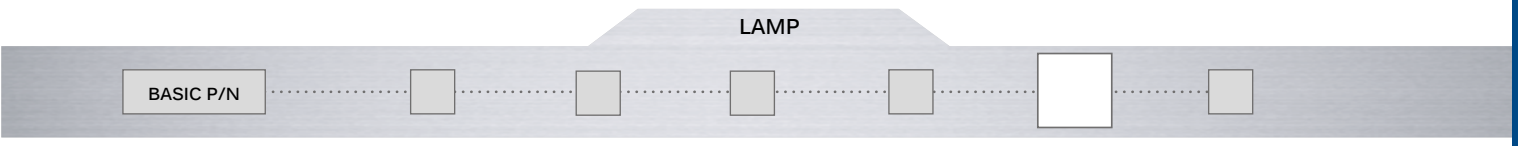
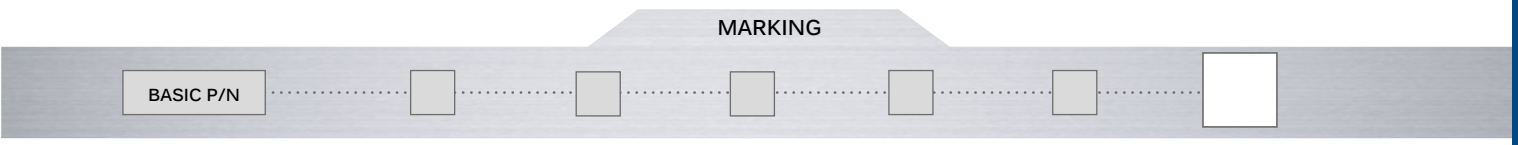


0	None



Color of marking : white for black rockers - black for other colors - Other : on request.

000	None
001	0
002	0 —
003	O I
004	I 0 II
005	OFF ON

FM series

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

BUILD YOUR PART NUMBER

ILLUMINATED

BASIC PART NUMBER

FM	L		
SERIES	ROCKER	ELECTRICAL FUNCTION	TERMINALS

ROCKER

L	Illuminated Concave

ELECTRICAL FUNCTION

1	ON - OFF

TERMINALS

8	Quick-connect

OPTIONS

A					
CONTACTS	FRAME COLOR	ROCKER COLORS	LENS COLOR		MARKING

CONTACTS

A	Silver

FRAME COLOR

2	Black

Others : on request.

ROCKER COLORS

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

LENS COLOR

1	Blue*
3	Green*
5	Yellow
6	Red
8	Translucent
9	Orange

* with fluorescent lamp

MARKING

000	None
001	0

LAMP		LED 3.3 V 10 MA		LED 5 V		LED 12 V	
A	220 V neon	E	Blue	N	Green	T	Green
B	220 V fluor.	F	Red/green	P	Yellow	U	Yellow
C	110 V neon	G	Green	Q	Red	V	Red
D	110 V fluor.	H	Yellow				
		J	White				
		K	Red				
		L	orange				
		No resistor**					

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

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FM series

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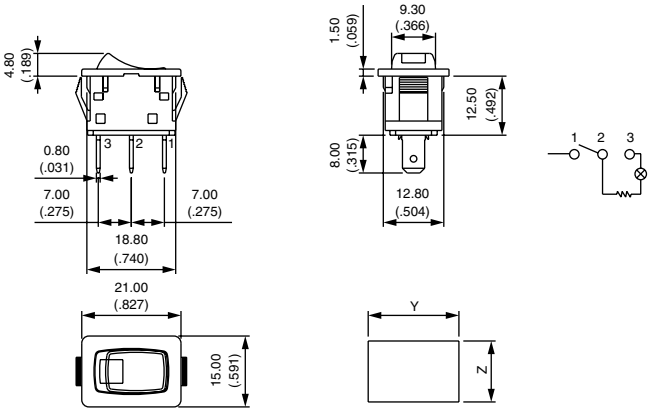
panel cut-out 19 x 13 (.750 x .508) • illuminated

ILLUMINATED
QUICK-CONNECT TERMINALS

Single pole

FML18	ON - OFF

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



CONTACT MATERIALS

BASIC P/N

A	Silver

FRAME COLOR

BASIC P/N

2	Black

Others : on request

ROCKER COLORS

BASIC P/N

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

LENS COLORS

BASIC P/N

1	Blue *
3	Green *
5	Yellow
6	Red
8	Translucent
9	Orange

* with fluorescent lamp

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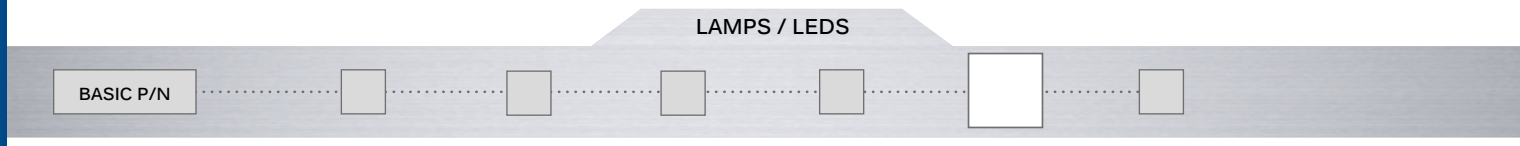


LAMP

A	220 V neon
B	220 V fluorescent
C	110 V neon
D	110 V fluorescent

LED 3.3 V 10 mA

E	Blue
F	Red/green
G	Green
H	Yellow
J	White
K	Red
L	Orange

No resistor **

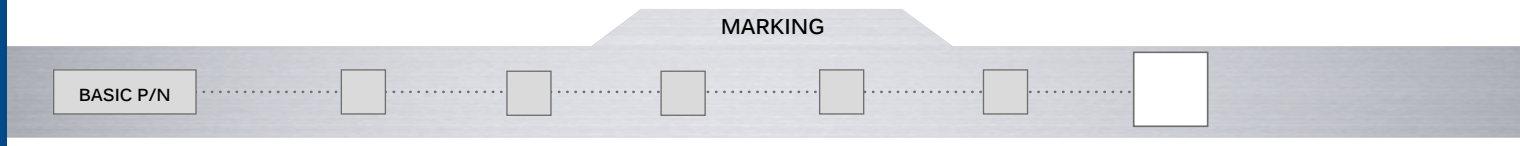
LED 5 V

N	Green
P	Yellow
Q	Red

LED 12 V

T	Green
U	Yellow
V	Red

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



Color of marking : white for black rockers - black for other colors - Other : on request.

000	None
001	0