FM series

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

DISTINCTIVE FEATURES

For class II appliances

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) :
 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.

FM series

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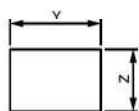panel cut-out 19 x 13 (.750 x .508)

AGENCY APPROVALS

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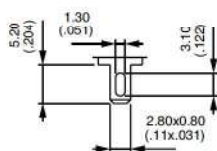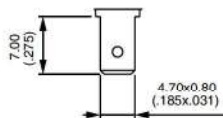**Marking :** approved models are standard marked.

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

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)
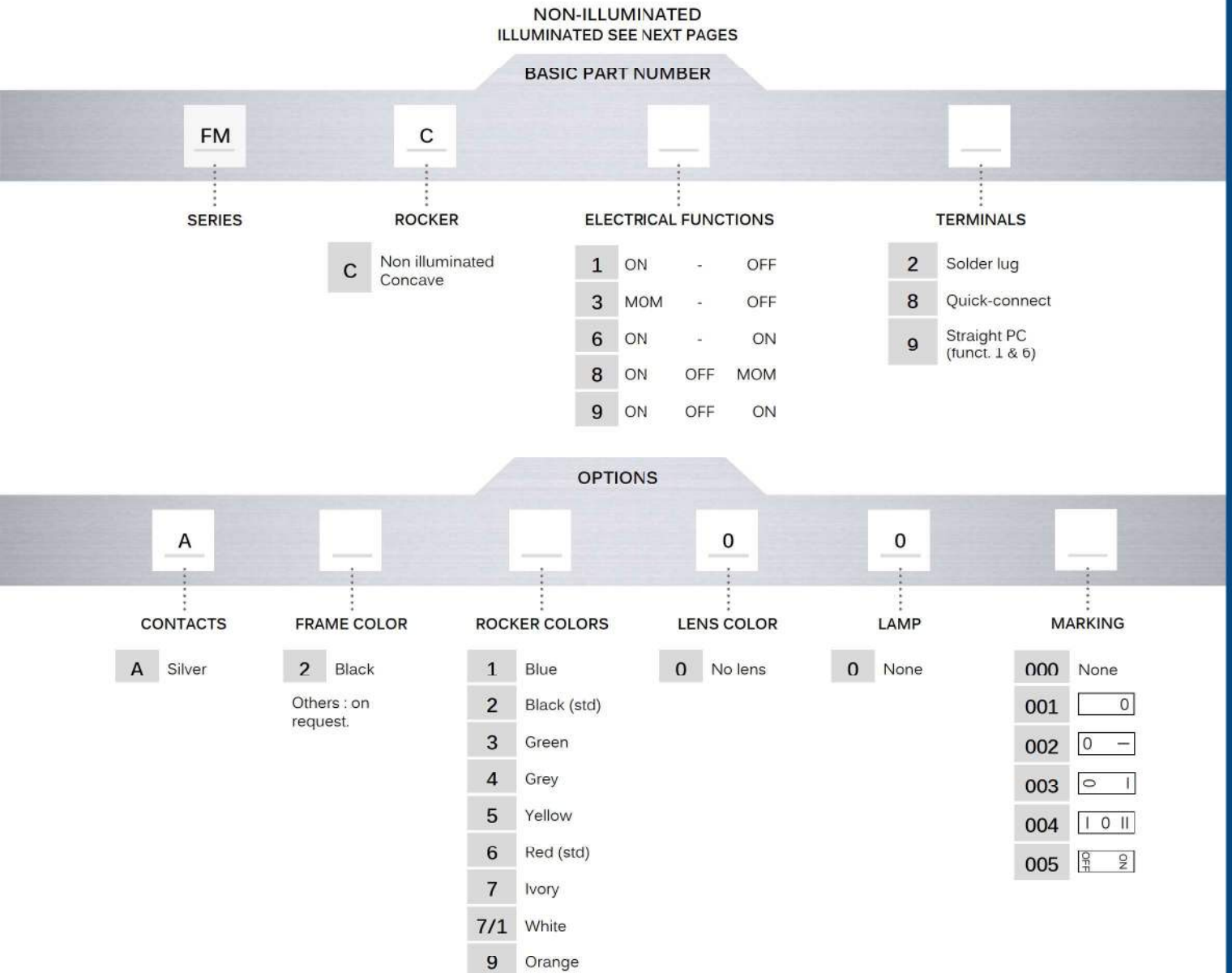13.00 (.512)
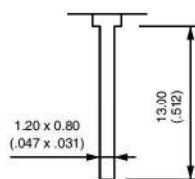
9
Straight PC
(functions 1 and 6 only)

FM series

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

⚙ BUILD YOUR PART NUMBER

NON-ILLUMINATED
ILLUMINATED SEE NEXT PAGES

BASIC PART NUMBER

SERIES	ROCKER	ELECTRICAL FUNCTIONS			TERMINALS	
FM	**C**					
	C — Non illuminated Concave	1	ON	- OFF	2	Solder lug
		3	MOM	- OFF	8	Quick-connect
		6	ON	- ON	9	Straight PC (funct. 1 & 6)
		8	ON	OFF MOM		
		9	ON	OFF ON		

OPTIONS

CONTACTS	FRAME COLOR	ROCKER COLORS	LENS COLOR	LAMP	MARKING
A			**0**	**0**	
A — Silver	2 — Black	1 — Blue	0 — No lens	0 — None	000 — None
	Others : on request.	2 — Black (std)			001 — ☐ 0
		3 — Green			002 — 0 —
		4 — Grey			003 — ○ I
		5 — Yellow			004 — I 0 II
		6 — Red (std)			005 — OFF ON
		7 — Ivory			
		7/1 — White			
		9 — Orange			

⚡ 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.
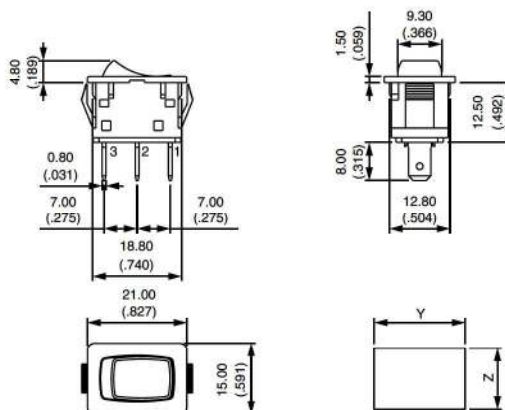
FM series

Snap-in rocker switches •
panel cut-out 19 x 13 (.750 x .508) • non-illuminated
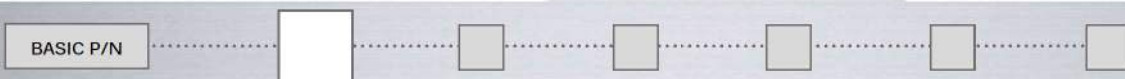
NON-ILLUMINATED
QUICK-CONNECT TERMINALS

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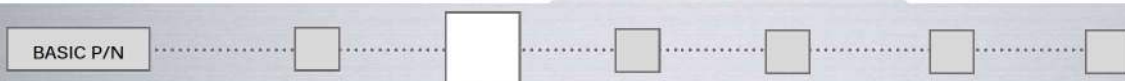For straight PC terminals, replace 8 with 9 (FMC•9)

4.80 (.189)
9.30 (.366)
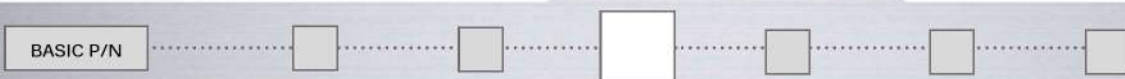1.50 (.059)
12.50 (.492)
0.80 (.031)
7.00 (.275)
7.00 (.275)
8.00 (.315)
12.80 (.504)
18.80 (.740)
21.00 (.827)
15.00 (.591)

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

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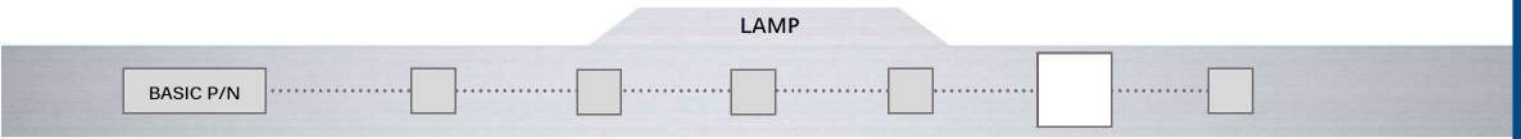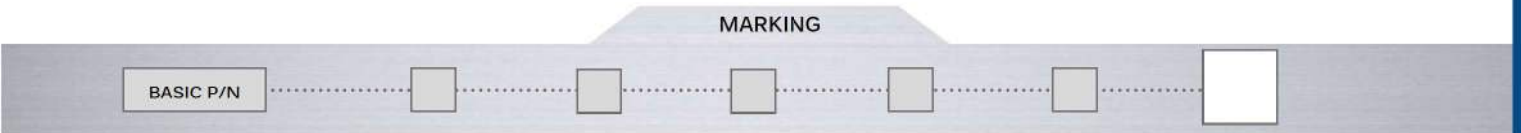
LAMP

BASIC P/N						

0   None

MARKING

BASIC P/N						

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
	L Illuminated Concave	**1** ON - OFF	**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
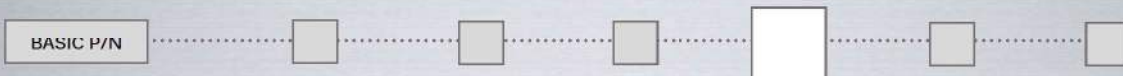
LENS COLOR
1	Blue*
3	Green*
5	Yellow
6	Red
8	Translucent
9	Orange

* 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				

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

No resistor**

⚡ 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.

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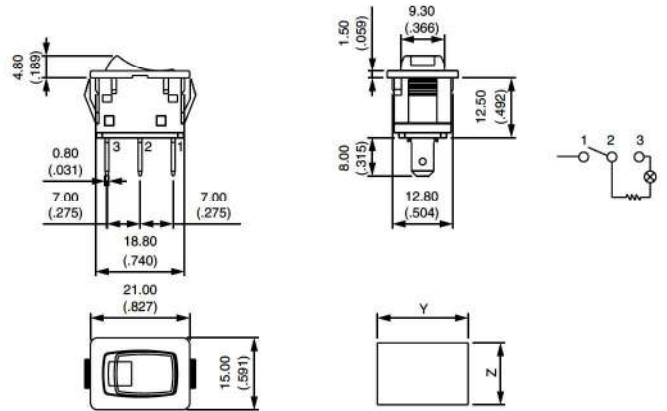
FM series

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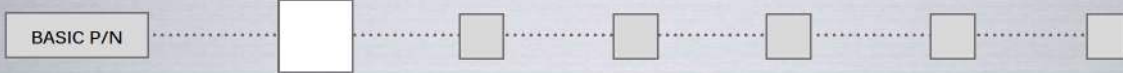
ILLUMINATED
QUICK-CONNECT TERMINALS

Single pole

FML18   ON - OFF
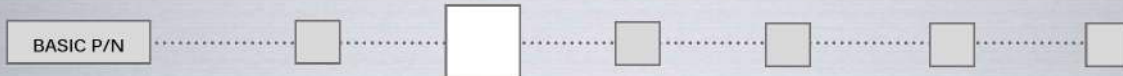
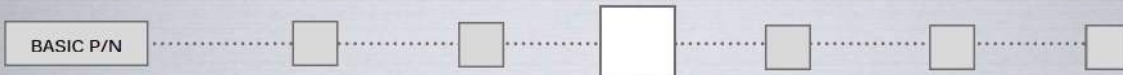For LED models, terminal 2 = cathode (-), terminal 3 = anode (+)

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 *   * with fluorescent lamp
3   Green *
5   Yellow
6   Red
8   Translucent
9   Orange

7

FM series

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BASIC P/N

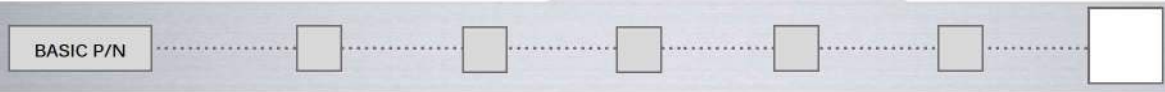| LAMP		LED 3.3 V 10 mA		LED 5 V		LED 12 V	
A	220 V neon	E	Blue	N	Green	T	Green
B	220 V fluorescent	F	Red/green	P	Yellow	U	Yellow
C	110 V neon	G	Green	Q	Red	V	Red
D	110 V fluorescent	H	Yellow				
		J	White				
		K	Red				
		L	Orange				
		No resistor **					

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

BASIC P/N

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

000 None
001 [0]

APEM