

New!

FP series

Fully illuminated pushbutton switches - bushing Ø 24 mm - momentary or latching

Distinctive features and specifications



- ☐ Suited for integrated designs
- ☐ Large but lightweight
- ☐ Pad printed or laser etched symbols
- ☐ Full actuator or symbol illumination, adaptable to design requirements

	Pad printing	Laser
Non-illuminated		
Illuminated		

ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load : 200mA 12VDC
- Initial contact resistance : 50 mΩ max.
- Insulation resistance : 1 GΩ min. at 500VDC
- Dielectric strength : 1.000 Vrms 50 Hz min.
- Electrical life at full load :
 - Momentary models : 1 million cycles
 - Latching models : 200.000 cycles

GENERAL SPECIFICATIONS

- Panel thickness : 1(.039) to 18 mm (.708) max.
- Total travel : 2,8 mm ± 0,5 mm
- Typical operating force : 8N ± 2N
- Low level or mechanical life :
 - Momentary models : 1 million cycles
 - Latching models : 200.000 cycles
- Torque : 3 Nm max. applied to nut
- Operating temperature : -40°C to +75°C

MATERIALS

- Case : PA46
- Actuator : PA12
- Bushing/ bezel : PA66
- Contacts : silver, gold plated (code 4)
- Cable : length 30 mm, section depending on switch model
- Terminal seal : epoxy or overmolding

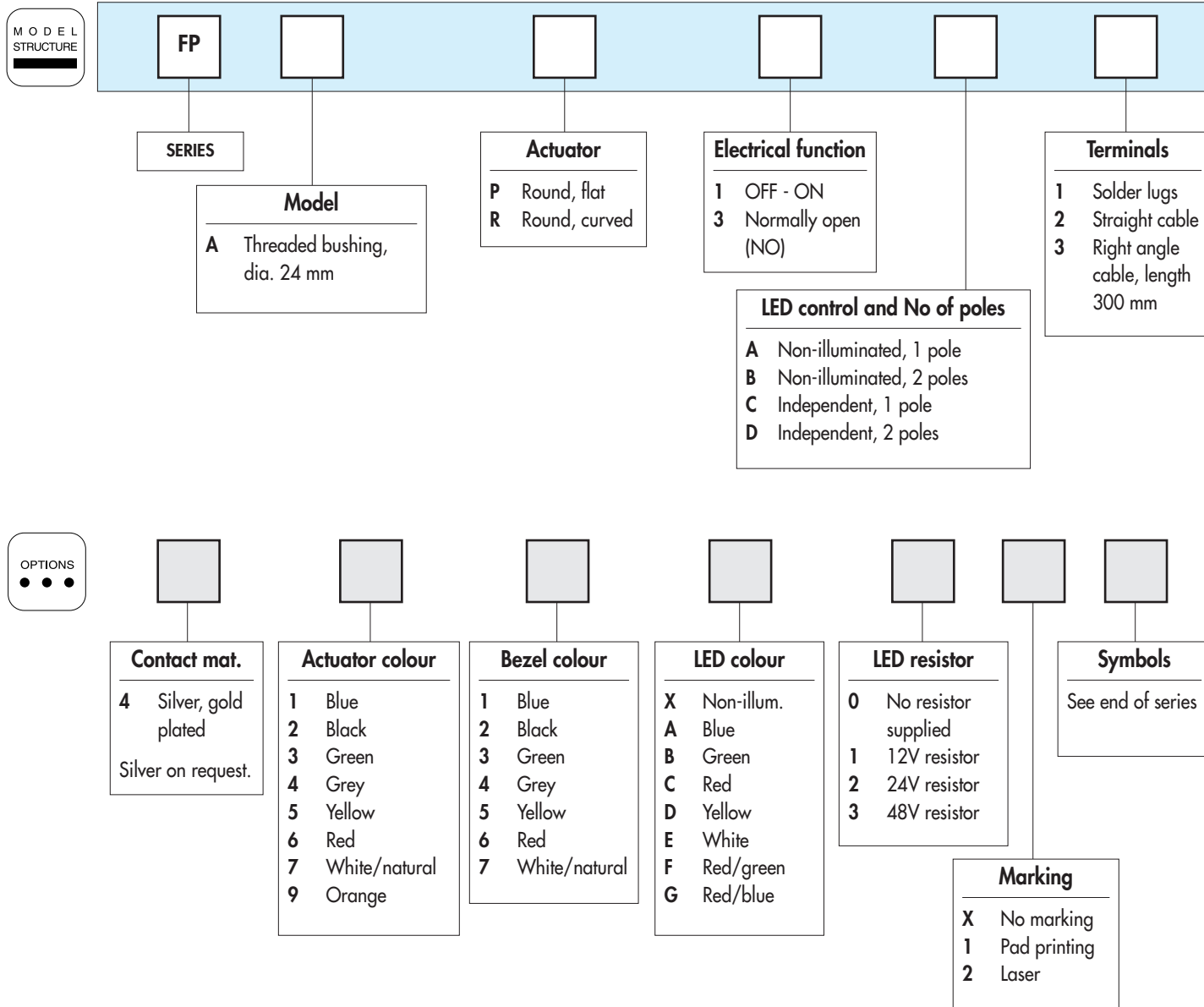
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Overview



ABOUT THIS SERIES

On the following pages, you will find successively :
model structure of switches and options in the same order as in above chart

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



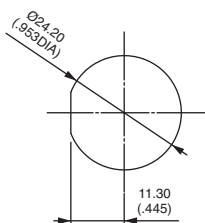
NOTICE : please note that not all combinations of above numbers are available.
Refer to the following pages for further information.



Mounting accessories : Standard hardware supplied : 1 hex nut and 1 O-Ring



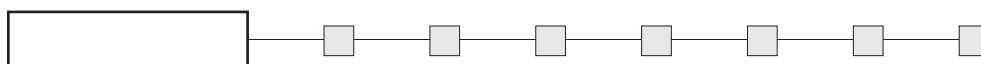
Packaging unit : solder lug versions : 20 pieces - cable versions : 1 piece



- Three terminal types
- Curved or flat actuator

To order a product, replace • with one of the codes selected under "LED control and number of poles" on next page, then add the desired options.

MODEL
STRUCTURE



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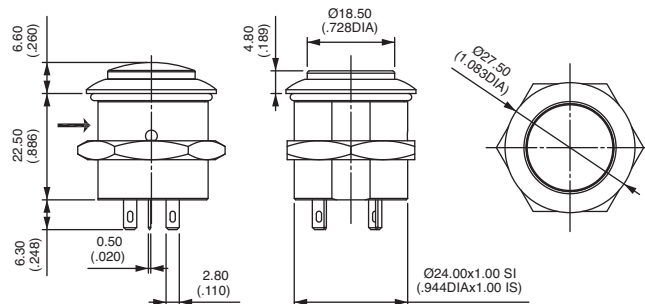
Solder lug terminals



LATCHING
Curved actuator
FPAR1•1
Flat actuator
FPAP1•1

MOMENTARY (NO)
Curved actuator
FPAR3•1
Flat actuator
FPAP3•1

OFF - ON
OFF - ON



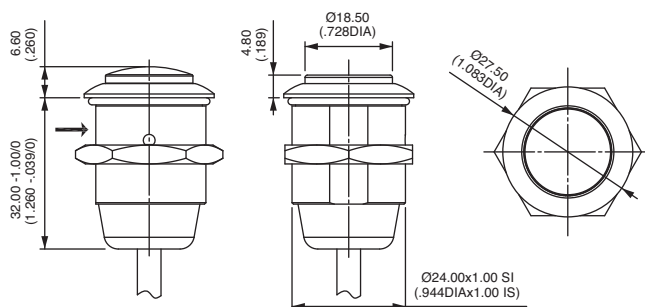
Straight cable terminals



LATCHING
Curved actuator
FPAR1•2
Flat actuator
FPAP1•2

MOMENTARY (NO)
Curved actuator
FPAR3•2
Flat actuator
FPAP3•2

OFF - ON
OFF - ON



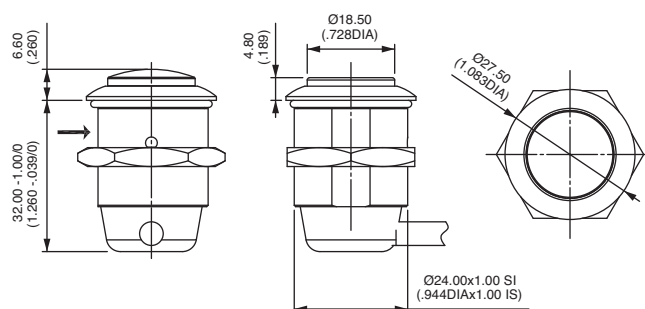
Right angle cable terminals



LATCHING
Curved actuator
FPAR1•3
Flat actuator
FPAP1•3

MOMENTARY (NO)
Curved actuator
FPAR3•3
Flat actuator
FPAP3•3

OFF - ON
OFF - ON

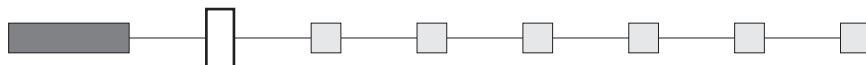


LED CONTROL AND NUMBER OF POLES

Complete the model numbers on previous pages with one of the following codes.

	Function 1 (latching)	Function 3 (momentary)		Function 1 (latching)	Function 3 (momentary)
Non-illuminated one pole A			Independent one pole C		
Non-illuminated two poles B			Independent two poles D		

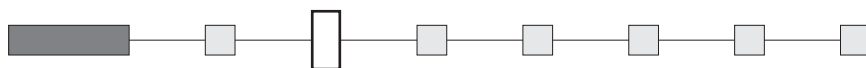
CONTACT MATERIALS



4 Silver, gold plated

Silver : on request.

ACTUATOR COLOUR



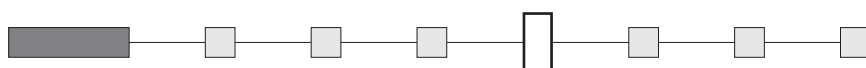
1 : blue - **2** : black - **3** : green - **4** : grey - **5** : yellow - **6** : red - **7** : white/natural
9 : orange

BEZEL COLOUR



1 : blue - **2** : black - **3** : green - **4** : grey - **5** : yellow
6 : red - **7** : white/natural - **8** : bright chrome

LED COLOUR



X : non-illuminated
A : blue - **B** : green - **C** : red - **D** : yellow - **E** : white - **F** : red/green - **G** : red/blue



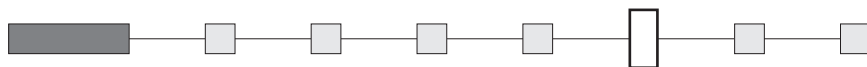
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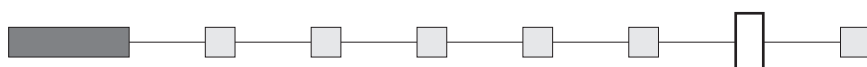
Options

LED RESISTOR



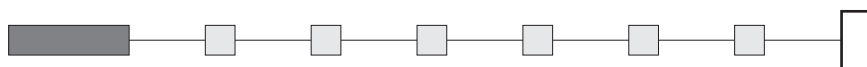
- 0 No resistor supplied
- 1 12V resistor
- 2 24V resistor
- 3 48V resistor

MARKING



- X No marking
- 1 Pad printing
- 2 Laser

SYMBOLS



- XX No symbol

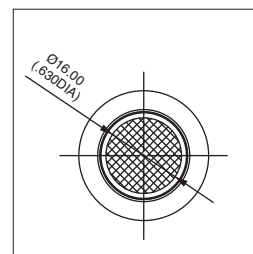
Available symbols
See end of K-range, section D.

Marking colour

White marking for illuminated actuators (laser etching) and non-illuminated black actuators (pad printing). Black marking for non-illuminated colour actuators (pad printing). Other : on request.

Marking area

The symbol will be included in the hatched area.



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