FP series

New!

Fully illuminated pushbutton switches - bushing Ø 30 mm - momentary or latching

Distinctive features and specifications

- ❑ **Full actuator or symbol illumination**
- ❑ **Suited for integrated designs**
- ❑ **Large but lightweight**
- ❑ **Pad printed or laser etched symbols**
- ❑ **Snap-in and threaded bushing models**

UG1410A

	Pad printing	Laser
Non-illuminated		
Illuminated		

ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
  - silver contacts (code 2) : 4A 12VDC
  - gold plated contacts (code 4) : 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 (gold plated contacts) 400.000 cycles (silver contacts)
  - Latching models : 200.000 cycles

MATERIALS

- Case : PA46
- Actuator : PA12, gloss finish
- Bushing/ bezel : ABS, gloss finish
- Contacts :
  Silver (code 2)
  or silver, gold plated (code 4)

GENERAL SPECIFICATIONS

- Panel thickness :
  - Snap-in version : 1,5 (.059) to 2 mm (.078) with panel gasket 2 (.078) to 2,5 mm (.885) without panel gasket
  - Threaded bushing version : 1(.039) to 9 mm (.354) 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 : 2 Nm max. applied to nut
- Operating temperature : -40°C to +75°C

The company reserves the right to change specifications without notice.

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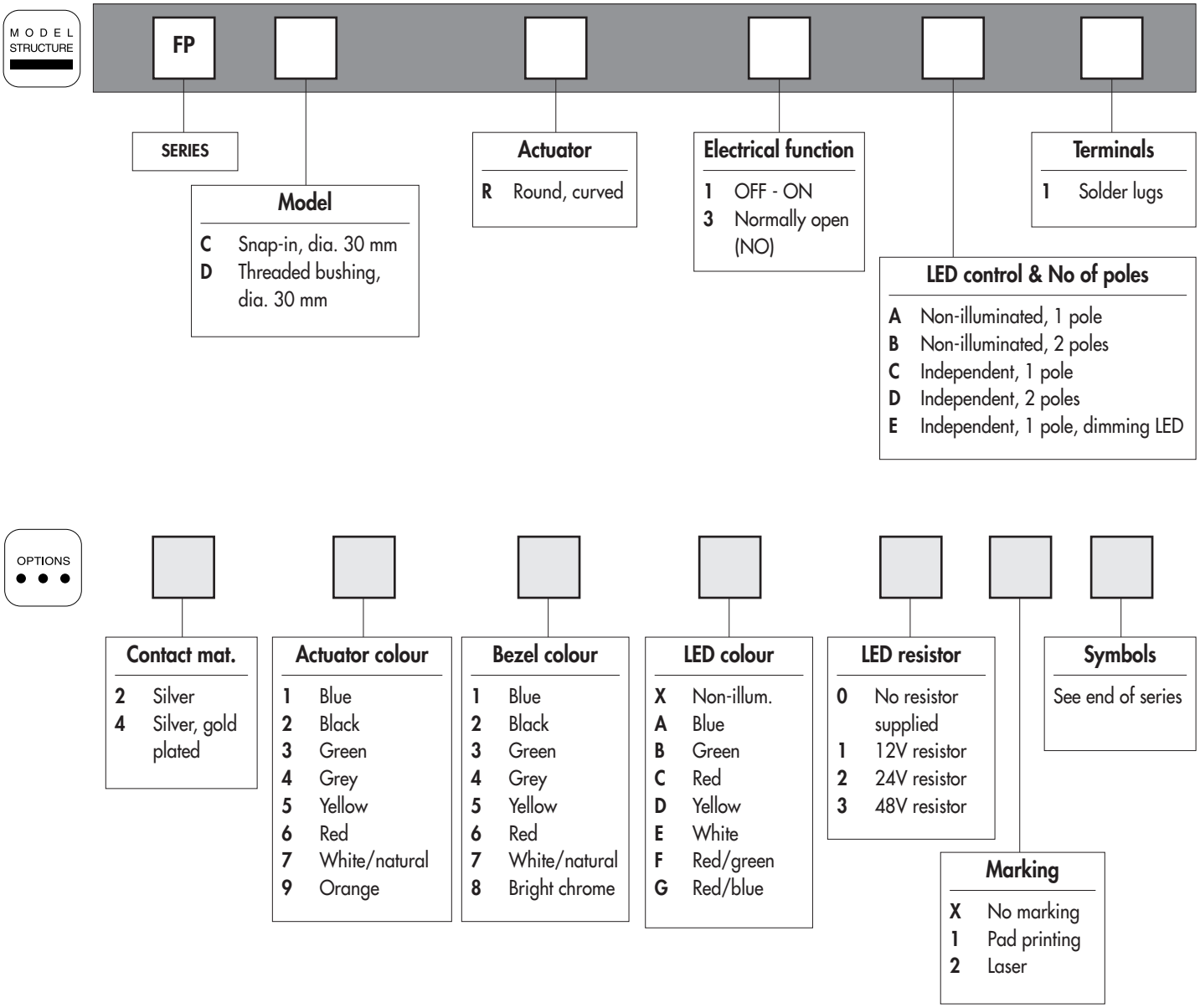
Overview



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 panel gasket (snap-in versions)
1 plastic hex nut and 1 panel gasket (threaded bushing versions)

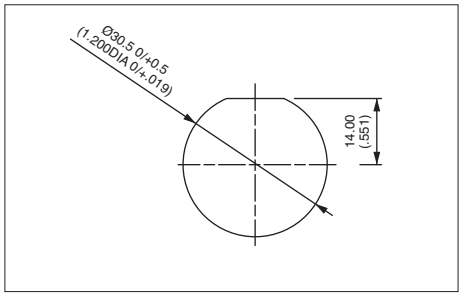
Packaging unit : 20 pieces

FP series

New!

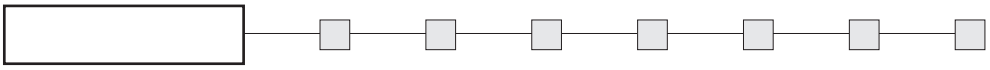
MODEL STRUCTURE

Fully illuminated pushbutton switches - bushing Ø 30 mm - momentary or latching



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

MODEL STRUCTURE



B2

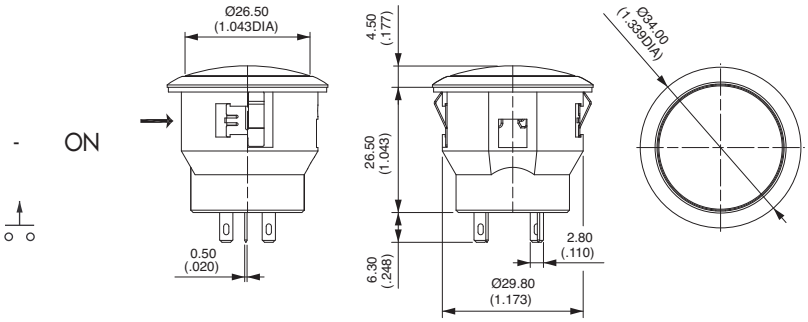
Snap-in mounting - solder lug terminals

→ Flat

LATCHING
FPCR1•1

OFF - ON

MOMENTARY (NO)
FPCR3•1



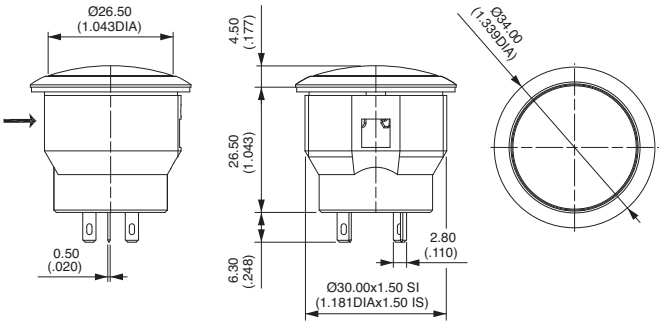
Mounting by threaded bushing - solder lug terminals

→ Flat

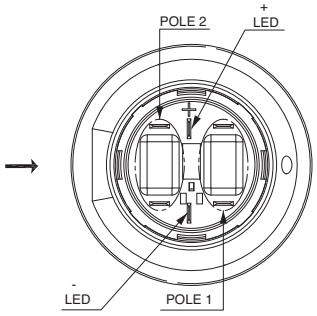
LATCHING
FPDR1•1

OFF - ON

MOMENTARY (NO)
FPDR3•1

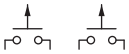


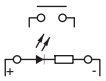
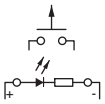
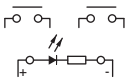
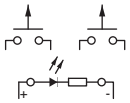
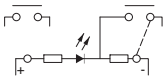
WIRING DIAGRAM



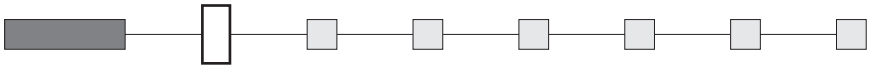
LED CONTROL AND NUMBER OF POLES

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

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

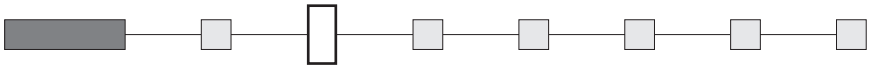
	Function 1 (latching)	Function 3 (momentary)
Independent one pole **C**		
Independent two poles **D**		
Independent one pole Dimming LED **E**		dotted line = jumper to be wired by the user. LED- has to be wired to one pin of pole 2.

CONTACT MATERIALS



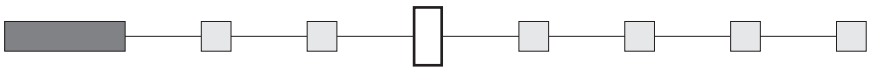
2 Silver
4 Silver, gold plated

ACTUATOR COLOUR



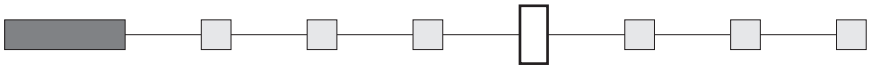
1 : blue - **2** : black - **3** : green - **4** : grey - **5** : yellow - **6** : red - **7** : white/natural - **9** : orange

BEZEL COLOUR



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

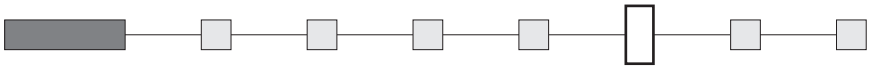
LED COLOUR



X : non-illuminated

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

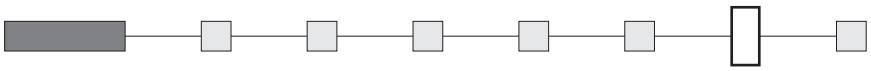
LED RESISTOR



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

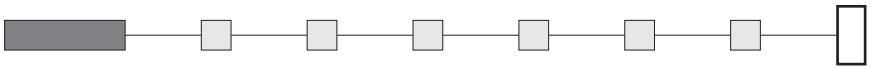
B2

MARKING



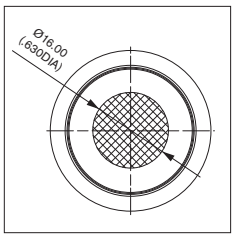
X No marking
1 Pad printing
2 Laser

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.
(this is the optimal area, larger symbols can be made on request)