



**lan:ir**<sup>®</sup>

Capacitive switch  
[www.langir.com](http://www.langir.com)



## FEATURES

Bushing diameter:  
16 (.630), 19 (.748), 22 (.866) or 25(0.984)

Activated by the touch of a finger

50 million cycles

Auto-calibration function

Momentary or latching

Illuminated and Non-illuminated

The new CP series capacitive switches technology senses the touch of a finger and creates an electrical charge to activate the switches

An auto-calibration function ensures the sensor adapts to changing external environments.

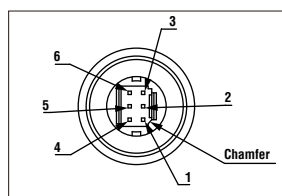
LANGIR's capacitive switches are specially designed for durability and a low activation force. As sensitive as a touch screen, the capacitive switches are perfect for industrial applications where repetitive activation can cause operator fatigue.



**This switch should not be used in safety applications.**



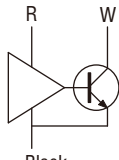
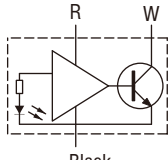
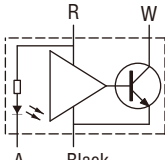
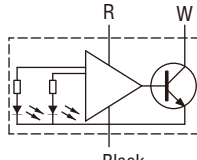
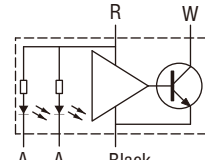
## WIRING FOR SWITCH CONNECTOR



- Pin 1 : GND
- Pin 2 : output
- Pin 3 : +V
- Pin 4 : LED 2
- Pin 5 :
- Pin 6 : LED 1



## WIRING DIAGRAMS

	Non-illuminated	1 LED		2 LEDs		Legend
		Output indicator	Independent	Output indicator	Independent	
						R red +V Black black GND W white output A = same colour as LED

Wire colours may vary.

Always refer to the label on the switch.



## ENVIRONMENTAL SPECIFICATIONS

- Sealing : IP68 and IP69K according to IEC 60529
- Triggered by flowing water
- Impact resistance : IK10
- Operating temperature : -20 °C to +65 °C (-4 °F to +149 °F)
- ESD : complies with EN61000-4-2 (extended)  $\pm$  8KV (20 contacts) and  $\pm$  15KV (20 air discharges)



## ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating : 200 mA 24 VDC
- Supply voltage : 5 VDC, 12 VDC or 24 VDC
- Life expectancy : 50 million cycles
- Power consumption non-illuminated : 7 mA
- Power consumption illuminated : 25 mA
- Operating force : 0 N
- LED state for output image option :  
1 LED : the LED is ON when the output is closed.  
2 LEDs : first color is ON when the output is open. Second color is ON when the output is closed.
- Output type : NPN or PNP



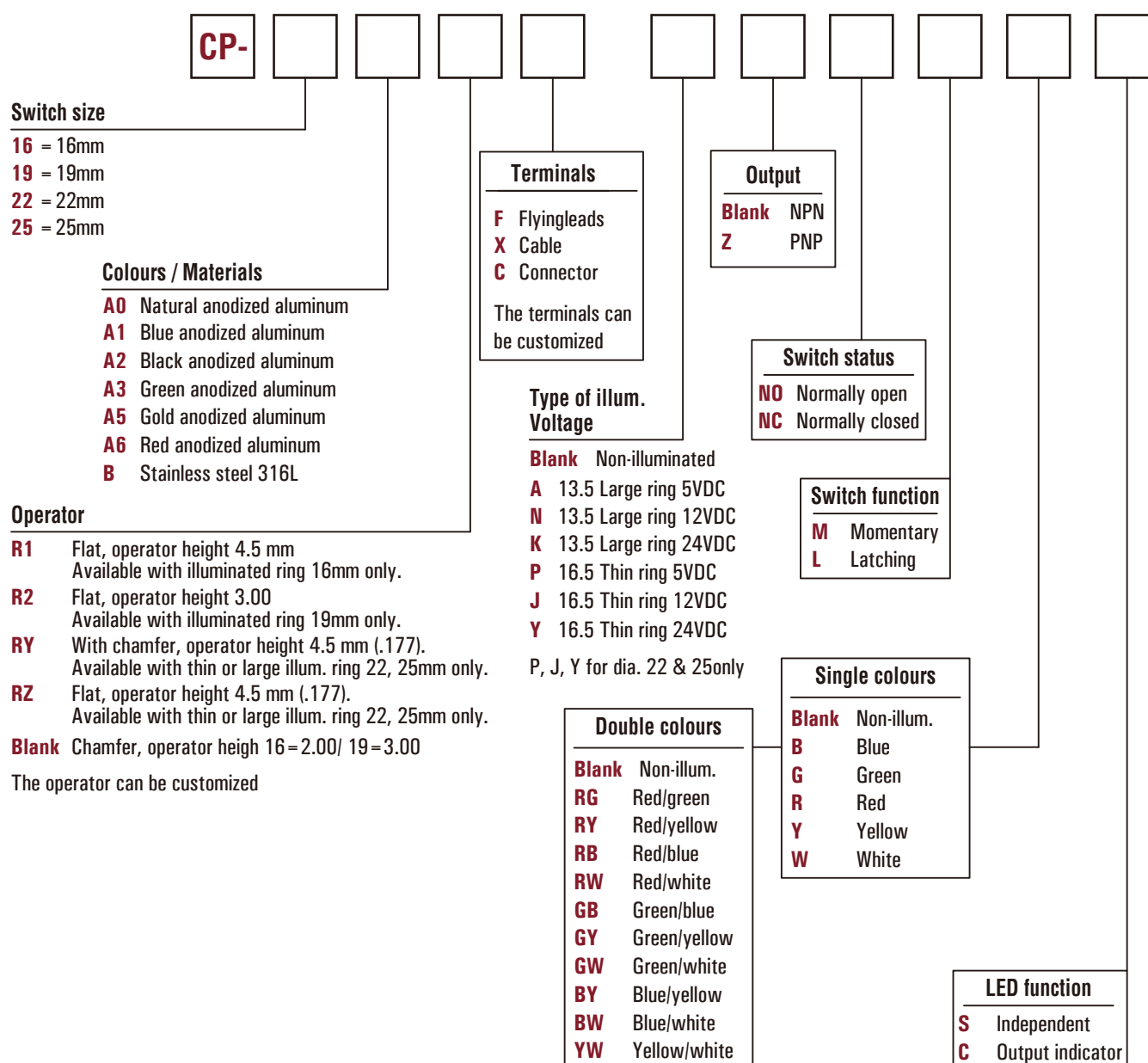
## MATERIALS

- Case : aluminum, anodized or stainless steel 316L
- Multi-wire leads section 0.22 mm<sup>2</sup> length 300 mm
- Cable, length 300 mm, section depending on switch model
- Connector : HE14 6V compatible with AMP/TYCO281839-3

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

**Tolerance:** The general tolerance for dimensions in this brochure is  $\pm$  0,3 (.012).

**Dimensions, specifications and data shown in this brochure are subject to change without notice.**



Mounting accessories standard hardware supplied :1 hex nut and 1 O-ring

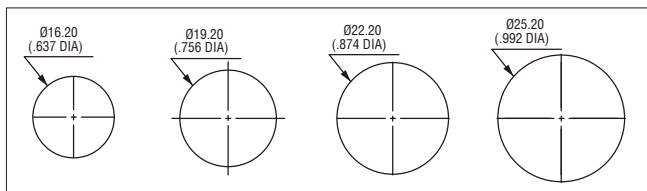


Packaging unit: 10 pieces

**For options not listed above, please contact LANGIR.**

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 If in doubt, please contact customer service hotline.



Shown with flying lead terminals.

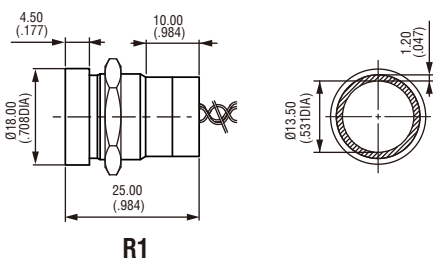
### Bushing Ø 16 mm (.630)



CP16BFR1FANOMBC

Flat

Chamfer



R1

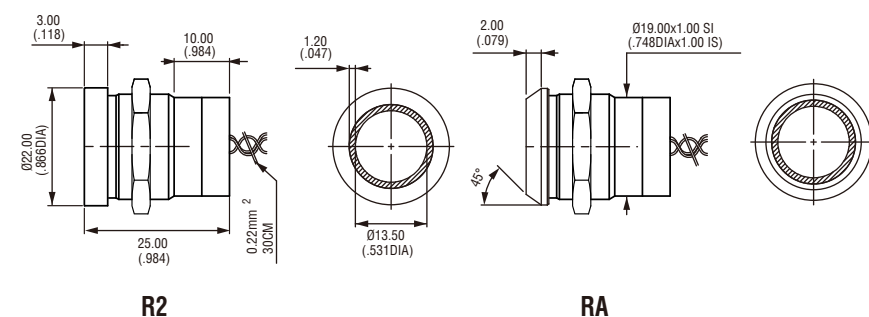
### Bushing Ø 19 mm (.748)



CP19BR2FKNOLBC

Flat

Chamfer



R2

RA

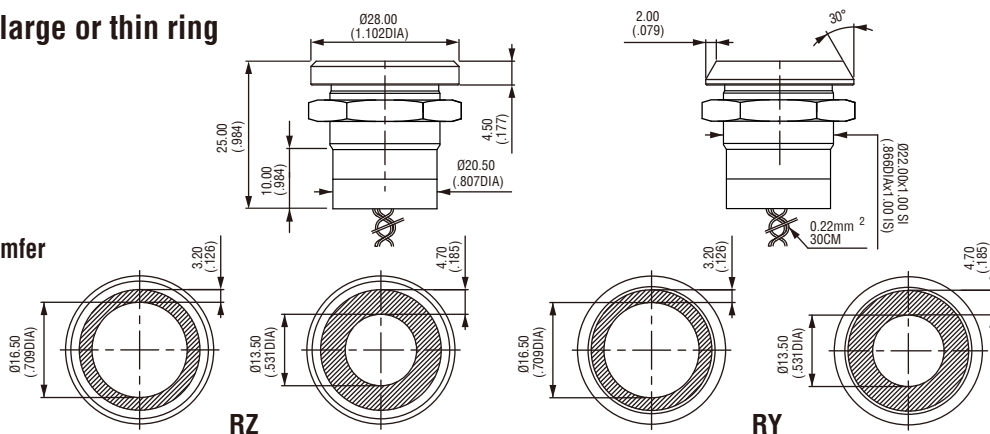
### Bushing Ø 22 mm (.866) - large or thin ring



CP22BRYFNNOMBC

Flat

Chamfer



RZ

RY

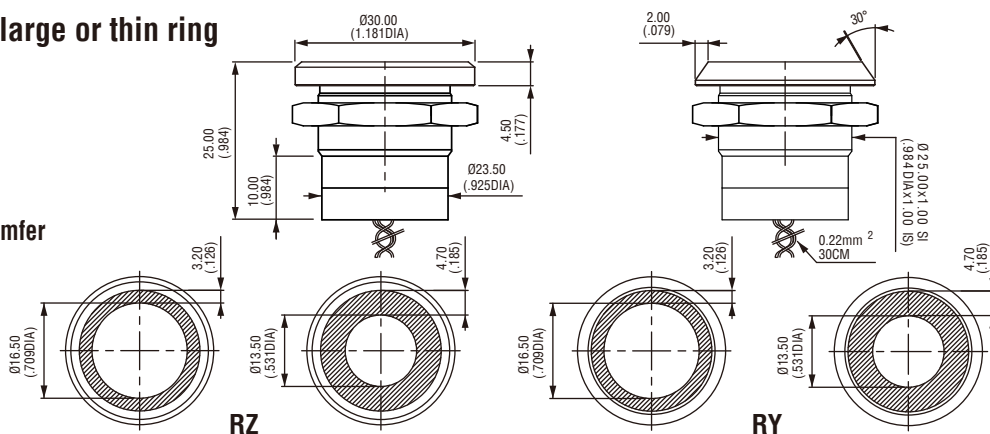
### Bushing Ø 25 mm (.984) - large or thin ring



CP25BRZFNNOMBC

Flat

Chamfer



RZ

RY

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