



## Distinctive Features

Bushing diameter:  
16 (.630), 19 (.748), 22 (.866) or 30 mm (1.181)  
Sealed to IP68 and IP69K (switches mounted on panel)  
Easy to clean metal surface  
Very long life expectancy  
Illumination or Non-illumination



## Environmental Specifications

- Sealing: IP68 per IEC 60529, IP69K per DIN 40050-9 (switches mounted on panel)
- Vibration resistance : 10-500 Hz / 10 g per IEC 60068-2-6
- Operating temperature : -40°C to +75°C (-40°F to +167°F)
- EMC compatibility according to EN 61058-1 for the whole range
- EMC compatibility according to EN 61000-4 & EN61000-6-2 for 1A



## Materials

- Case: aluminum, anodized or stainless steel 316L
- Multi-wire leads section 0.22mm<sup>2</sup> length 300mm, twisted by pair
- Case, length 300mm, section depending on switch model
- PC terminals : bronze, tin plated

Note : to maintain the ESD performance, always add a ground washer when the panel is made of non-conductive material (PVC, polycarbonate).



## Electrical Specifications

- Max. current / voltage rating with resistive load:  
-Function NO : standard 200 mA 24 VAC / DC, 1 A 24 VAC / DC or request  
-Function NC : standard max. 600 mA 24 VAC / DC
- Switch resistance ON : 10Ω max.
- Switch resistance OFF : 5MΩ max.
- Life expectancy : 50 million cycles
- LED consumption: illuminated dot 10mA - illuminated ring 20mA



## Color



Blue



Green



Yellow



White

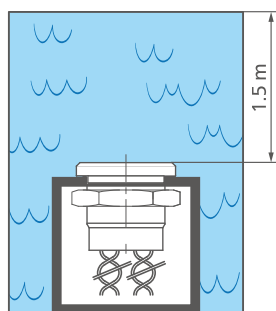


Red



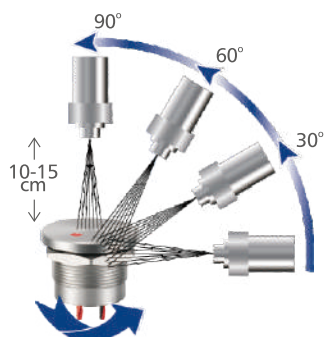
## Sealing

### SEALING IP68



Continuous immersion in water  
IP68 test conditions  
Continuous immersion in water  
(1.5m, 24 hours)

### SEALING IP69K



High pressure, high temperature wash  
down IP69K test conditions

- Pressure : 80-120 bars
- Distance : 15cm
- Temperature : 80°C ± 5°C (176°F ± 41°F)
- Flow : 14-16 l/mn
- Duration : 30 seconds per position



## General Specifications

- Operating force: 2 to 6 N
- Torque : 2.5 Nm min. -3 Nm max.

## Specifications



### Electrical Functions

#### FINGER PRESSURE applied to switch

1 = pressure

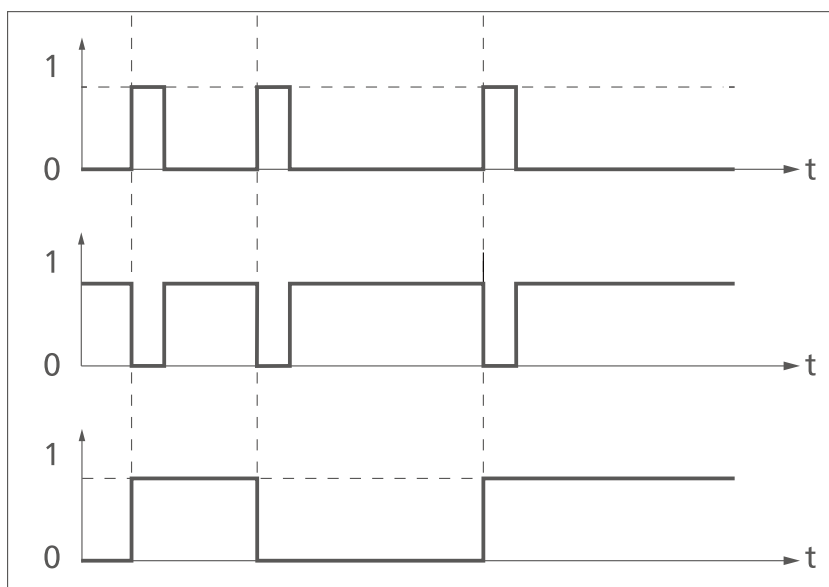
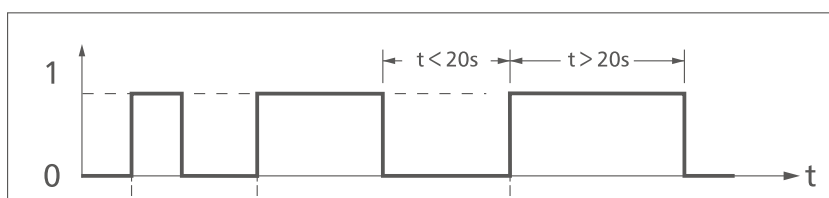
0 = no pressure

#### OUTPUT

Momentary NO (pulse)  
No external power supply  
required

Momentary NC (pulse)  
No external power supply  
required

Latching (ON - OFF)  
Requires external power supply



1 = closed output 0 = open output

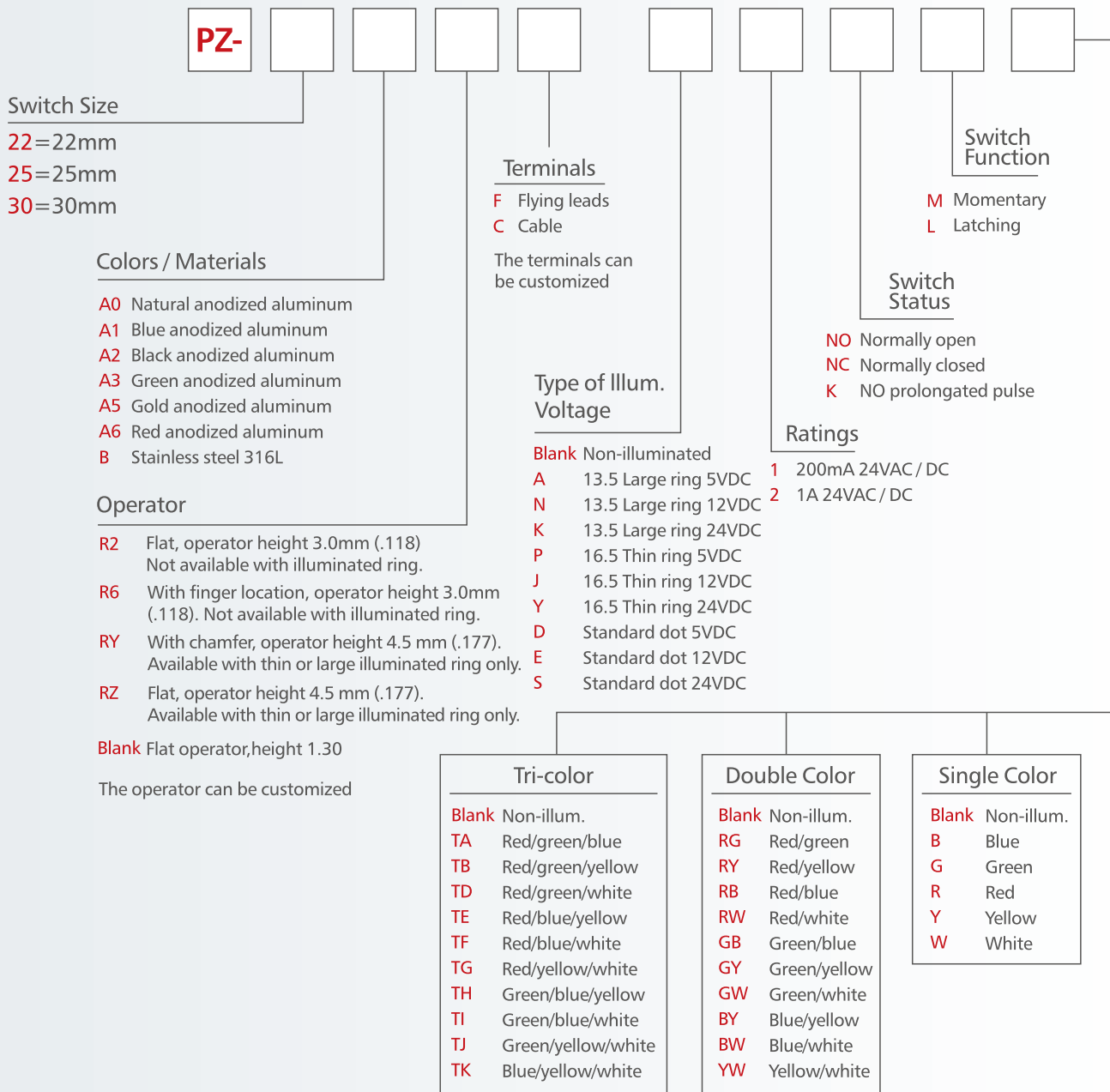


### Wiring Diagrams

| Function                          | Non-illuminated | 1 LED* | 2 LEDs | 3 LEDs                                        |
|-----------------------------------|-----------------|--------|--------|-----------------------------------------------|
| Momentary NO                      |                 |        |        |                                               |
| Momentary NC                      |                 |        |        |                                               |
| Momentary NO<br>Prolongated Pulse |                 |        |        |                                               |
| Latching<br>(ON - OFF)            |                 |        |        | BR brown +V<br>BK black GND<br>BL blue output |

Legend: B = black, A = same colour as LED

\*LED colour is indicated by the bottom of the product.



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



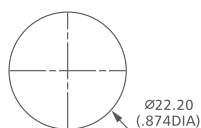
Mounting accessories standard hardware supplied : 1 hex nut and 1 O-ring



Packing unit: 20 pieces

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

The appearance of the products listed on this file, color, parameters are for reference only, issued a kind of LANGIR Company shall prevail.  
 LANGIR Company reserves the right to modify or cancel the relevant parameters of this file does not advance notice.  
 If in doubt, please contact customer service hotline.



Shown with flying lead terminals.

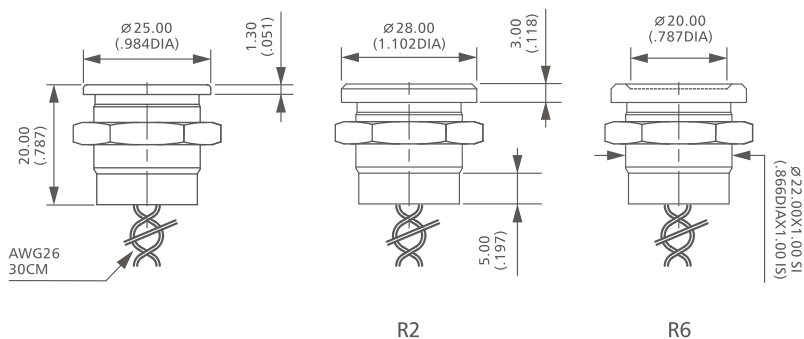
### Non-illuminated



PZ22A6R6F1NOM

Flat

Finger location



R2

R6

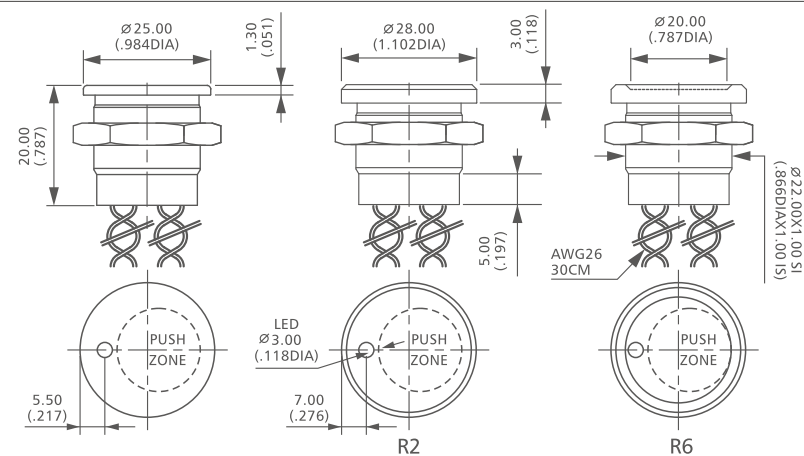
### Dot illuminated



PZ22A0R2FD1NOMR

Flat

Finger location



R2

R6

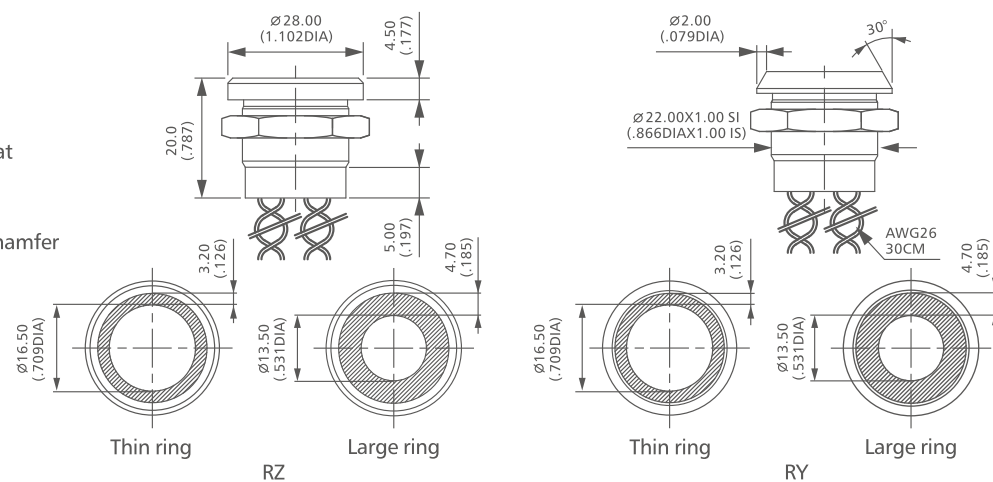
### Ring illuminated



PZ22BRYFJ1NOLW

Flat

Chamfer



Thin ring

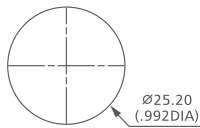
RZ

Large ring

Thin ring

RY

Large ring



Shown with flying lead terminals.

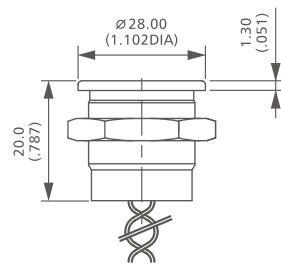
### Non-illuminated



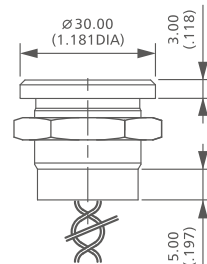
PZ25BF1NOM

Flat

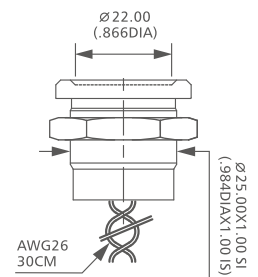
Finger location



R2



R6



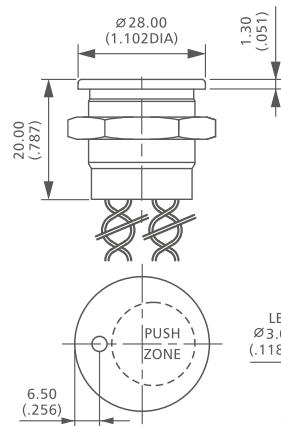
### Dot illuminated



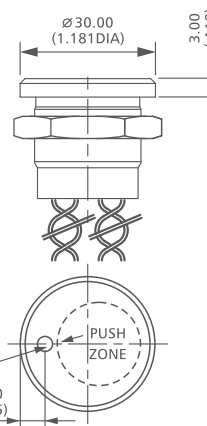
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Flat

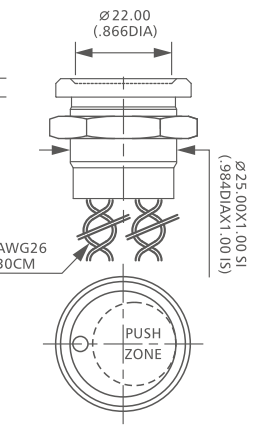
Finger location



R2



R6



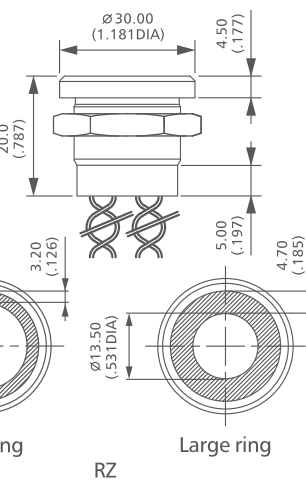
### Ring illuminated



PZ25BRZF1NOLG

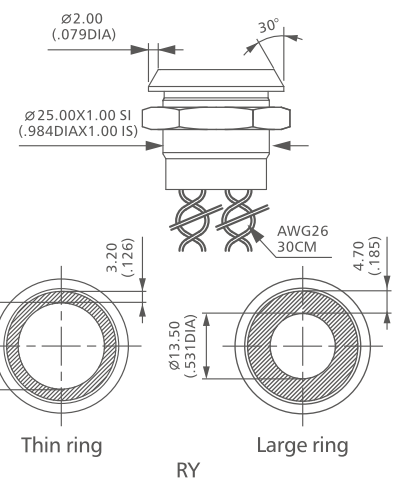
Flat

Chamfer



RZ

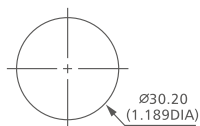
Large ring



RY

Thin ring

Large ring



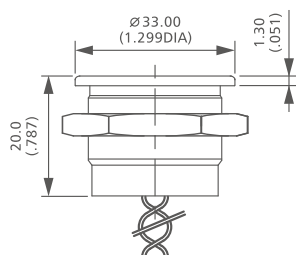
Shown with flying lead terminals.

### Non-illuminated

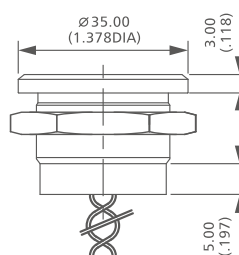


PZ30BR2F1NOM

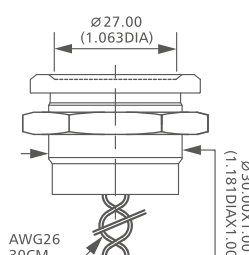
Flat



R2



R6



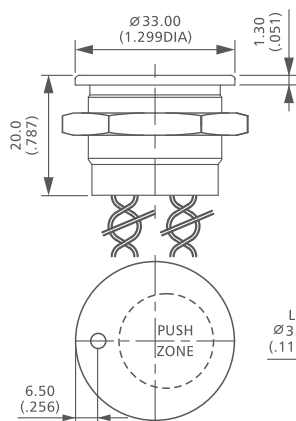
### Dot illuminated



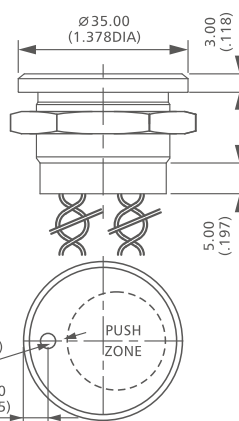
PZ30BFE1NOMG

Flat

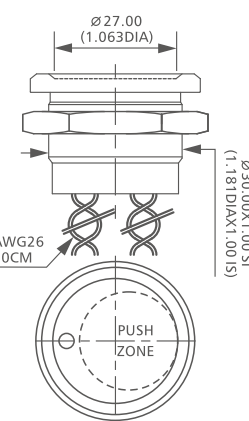
Finger location



R2



R6



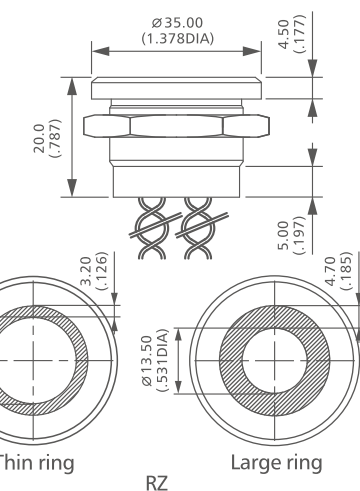
### Ring illuminated



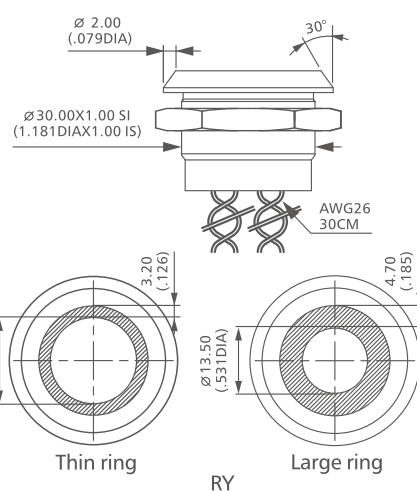
PZ30A2RYFJ1NOMRY

Flat

Chamfer



RZ



RY