

# Piezo switches Ø 30 mm

Distinctive features and specifications

SW-PBA30-1706



- ☐ Bushing diameter 30 mm (1.181)
- ☐ Sealed to IP68 and IP69K (switches mounted on panel)
- ☐ Easy to clean metal surface
- ☐ Very long life expectancy
- ☐ Ring illumination: flush or prominent ring

#### **ENVIRONMENTAL SPECIFICATIONS**

- Sealing: IP68 per IEC 60529, IP69K per DIN 40050-9 (switches mounted on panel)
- Operating temperature : -40 °C to +75 °C (-40 °F to +167 °F)

#### **ELECTRICAL SPECIFICATIONS**

- Max. current/voltage rating with resistive load: 1 A 24 VAC/DC
- Switch resistance ON :  $10~\Omega$  max. • Switch resistance OFF :  $5~M\Omega$  min. • Life expectancy : 50 million cycles
- LED consumption: 20 mA

#### **GENERAL SPECIFICATIONS**

Operating force : 6 to 12 N
Torque : 1.5 Nm min. - 10 Nm max

#### **MATERIALS**

- Case: aluminum, anodized or stainless steel 316L
- Multi-wire leads section 0,22 mm<sup>2</sup> length 300 mm, twisted by pair
- Cable, length 300 mm, section depending on switch model

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

For part numbers, see "Mounting accessories" on the following pages.

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**SEALING IP68** 

# Continuous immersion in water IP68 test conditions

Continuous immersion in water (1m, 24 hours)

# SEALING IP69K

# High pressure, high temperature wash down IP69K test conditions

. Pressure : 80 - 120 bars . Distance : 15 cm . Temperature : 80°C ± 5°C . Flow : 14 - 16 l/mn

. Duration: 30 seconds per position

- ① One-piece bushing
- 2 Epoxy sealed terminals
- 3 O-ring

The company reserves the right to change specifications without notice.





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Electrical functions

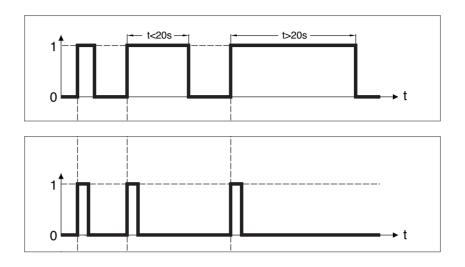
# FINGER PRESSURE applied to switch

1 = pressure 0 = no pressure

#### **OUTPUT**

- Momentary NO (pulse) No external power supply required

> 1 = closed output 0 = open output



#### Wiring diagrams

	Non-illuminated	1 LED *	2 LEDs	3 LEDs
Momentary NO	RED	RED	RED RED A B A B	RED RED A B A B A B

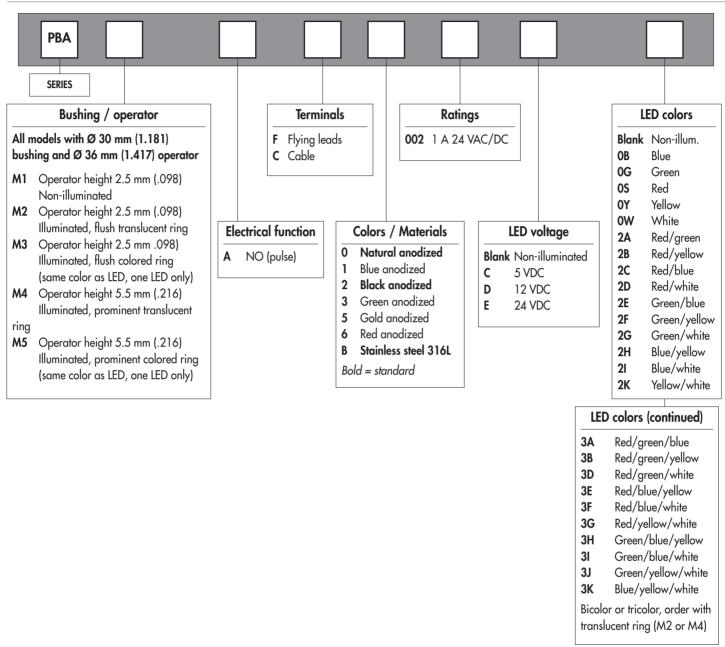
**Legend**: C = yellow, D = blue, B = black, A = same color as LED \* LED color

<sup>\*</sup> LED color is indicated by the bottom of the product.



#### Piezo switches Ø 30 mm

**Overview** 



For options not listed above, please contact APEM.

**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.

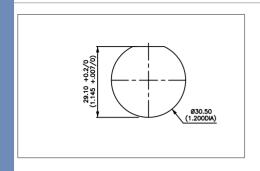


**Mounting accessories**: standard hardware supplied: 1 hex nut U6730 (36 mm ac. flats) and 1 O-ring. Always add a ground washer U7340 when the panel is non-conductive (PVC, polycarbonate).

#### New!

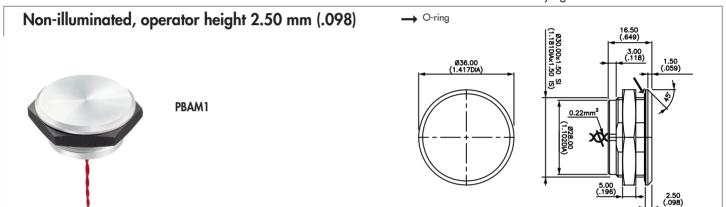
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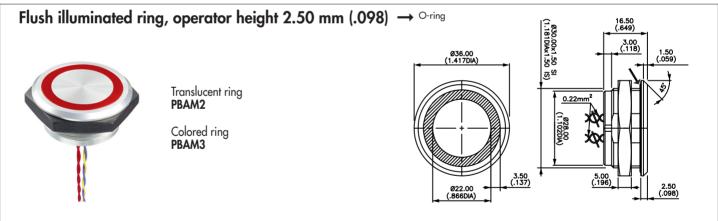
Illuminated or non-illuminated

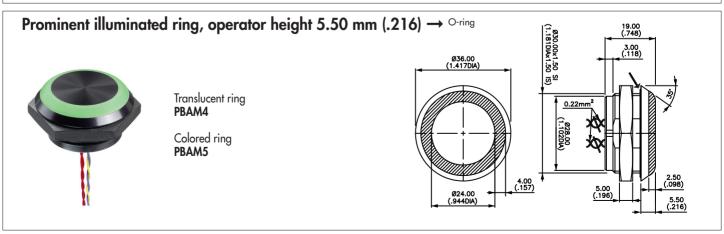




Shown with flying lead terminals





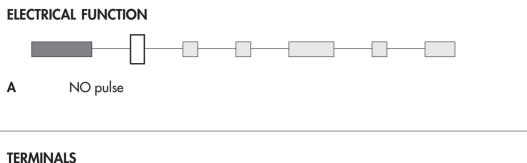


Wire colours: see "Wiring diagrams" on previous pages.

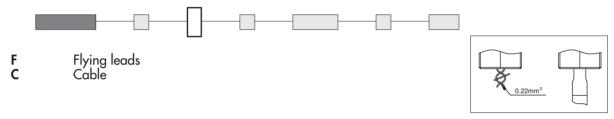


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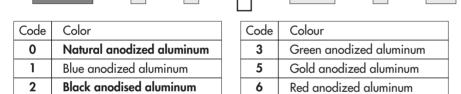
**Options** 







#### CASE COLORS / MATERIALS



Code	Color
В	Stainless steel 316L

Bold = standard

#### **RATINGS**



002 1 A 24 VAC or DC

#### **LED VOLTAGE**



Blank: non-illuminated

5 VDC C D E 12 VDC 24 VDC





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**Options** 

#### **LED COLORS**



Blank: non-illuminated

Illuminated 1 LED \*

**0B**: blue - **0G**: green - **0S**: red - **0Y**: yellow - **0W**: white

Illuminated 2 LEDs (with translucent ring)
2A: red/green - 2B: red/yellow - 2C: red/blue - 2D: red/white - 2E: green/blue - 2F: green/yellow - 2G: green/white
2H: blue/yellow - 2I: blue/white - 2K: yellow/white

Illuminated 3 LEDs (with translucent ring)
3A: red/green/blue - 3B: red/green/yellow - 3D: red/green/white - 3E: red/blue/yellow - 3F: red/blue/white 3G: red/yellow/white - 3H: green/blue/yellow - 3I: green/blue/white - 3J: green/yellow/white - 3K: blue/yellow/white

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<sup>\*</sup> LED color is indicated by the bottom of the product.