Piezo switches Ø 30 mm



3W18R302211

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

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)
- Extreme thermal shock may briefly trigger the switch



ELECTRICAL SPECIFICATIONS

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



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 mm² length 300 mm, twisted by pair
- Cable, length 300 mm, section depending on switch model

APEM products may be recycled at end-of-life for the re-claiming of valuable metal components.

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.

The company reserves the right to change specifications without notice.



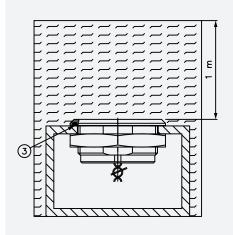


Piezo switches Ø 30 mm



SEALING

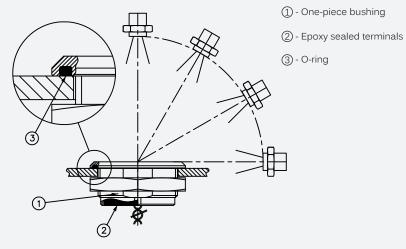




Continuous immersion in water IP68 test conditions

Continuous immersion in water (1 m, 24 hours)

SEALING IP69K



High pressure, high temperature wash down IP69K test conditions

. Pressure : 80 - 120 bars

. Distance : 15 cm

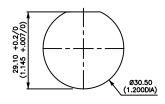
. Temperature : 80 °C ± 5 °C (176 °F ± 41 °F)

. Flow : 14 - 16 l/mn

. Duration : 30 seconds per position



PANEL CUT-OUT



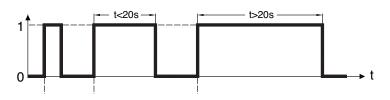
Piezo switches Ø 30 mm



ELECTRICAL FUNCTIONS

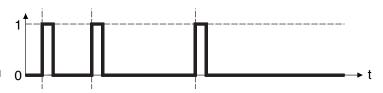
FINGER PRESSURE APPLIED TO SWITCH

1 : pressure / 0 : no pressure



OUTPUT

1: closed output / 0: open output

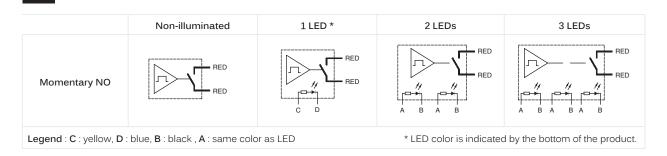


Momentary NO (pulse)

No external power supply required



WIRING DIAGRAMS

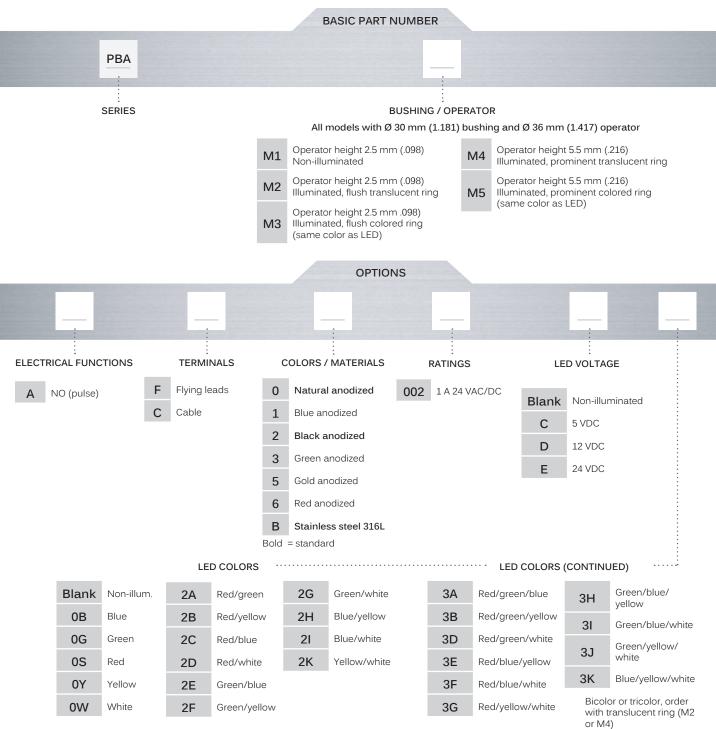


3

Piezo switches Ø 30 mm



BUILD YOUR PART NUMBER





ABOUT THIS SERIES

On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.

- () 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).

For options not listed above, please contact APEM.

Piezo switches Ø 30 mm





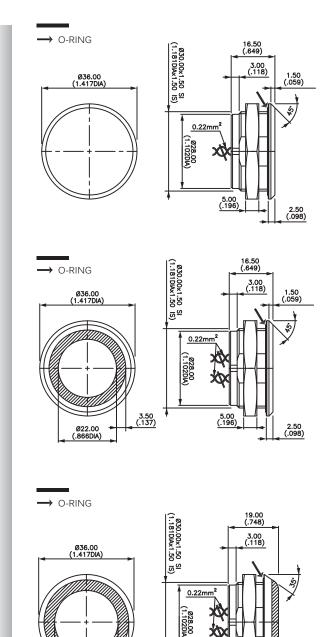
FLUSH ILLUMINATED RING OPERATOR HEIGHT 2.50 MM (.098)



PROMINENT ILLUMINATED RING OPERATOR HEIGHT 5.50 MM (.216)



Wire colors: see "Wiring diagrams".



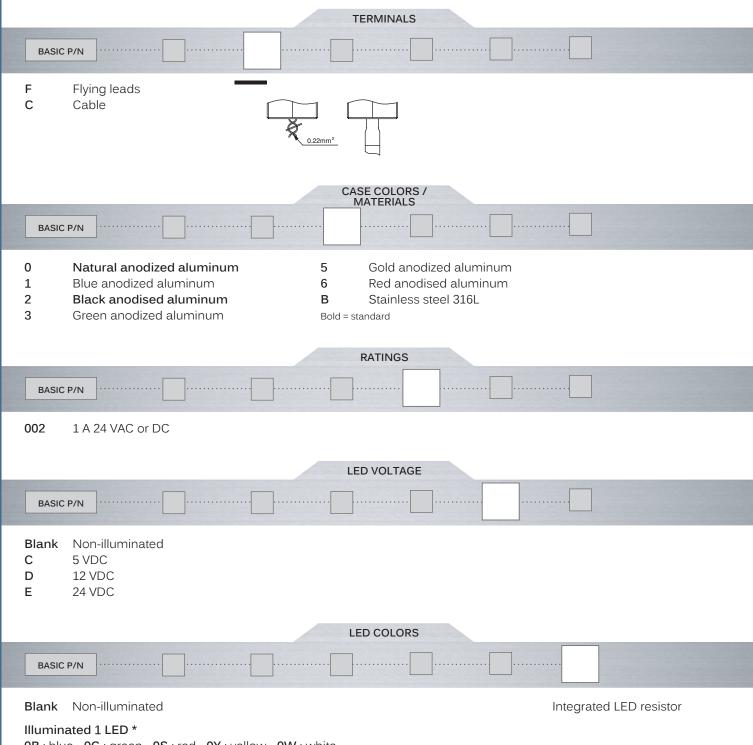
4.00 (.157)

ELECTRICAL FUNCTION

BASIC P/N

NO pulse

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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

^{*} LED color is indicated by protective resin color on bottom of unit.