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Piezo switches

Specifications

UG1006-A

Sealed to IP 68 and IP69K (switches mounted on panel)

- **Easy to clean metal surface**
- Very long life expectancy
- Ring or dot illumination

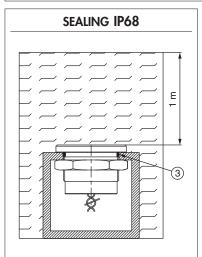
ENVIRONMENTAL SPECIFICATIONS

- Sealing : IP68 per IEC 529, IP69K per DIN 40050-9 (switches mounted on panel or not) • Vibration resistance : 10-500 Hz / 10 g per IEC 60068-2-6

- Operating temperature : -40°C to +75°C
 EMC compatibility according to EN 61058-1 for the whole range
- EMC compatibility according to EN 61000-4 & EN61000-6-2 for model 1A (code 002)

ELECTRICAL AND GENERAL SPECIFICATIONS

- Max. current/voltage rating : - Function A : standard 200mA 24VAC/DC - option 1A 24VAC/DC - Function B : standard 100mA 24VAC/DC
- Switch resistance $ON : 10\Omega$ max.
- Switch resistance OFF : $5M\Omega$ min.
- Operating force : 2 to 6N
 Life expectancy : 50 million cycles
- LED consumption : Illuminated dot : 10mA Illuminated ring : 20mA



Continuous immersion in water

Continuous immersion in water

IP68 test conditions

(1m, 24 hours)

SEALING IP69K

High pressure, high temperature wash down

IP69K test conditions

(1)

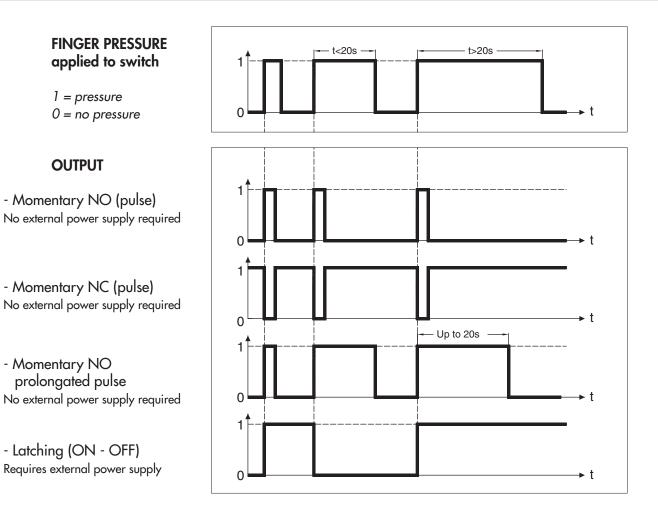
- . Pressure : 80 120 bars
- . Distance : 15 cm
- . Temperature : 80°C ± 5°C
- . Flow : 14 16 l/mn
- . Duration : 30 seconds per position

MATERIALS

- Case : aluminium, 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 modelPC terminals : bronze, tin plated

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

Electrical functions



1 = closed output 0 = open output

Wiring diagrams

| | Non-illuminated | 1 LED * | 2 LEDs | 3 LEDs |
|-----------------------------------|----------------------------------|----------------------------------|----------------------------------|--|
| Momentary NO | RED | RED RED C D | RED RED RED A B A B | RED RED RED A B A B A B |
| Momentary NC | GREEN | GREEN GREEN C D | GREEN GREEN GREEN GREEN | GREEN GREEN GREEN A B A B A B |
| Momentary NO prolongated pulse | WHITE | WHITE C D | A B A WHITE | |
| Latching (ON - OFF) | WHITE 9-24V AC/DC WHITE | WHITE 9-24V AC/DC WHITE | | |

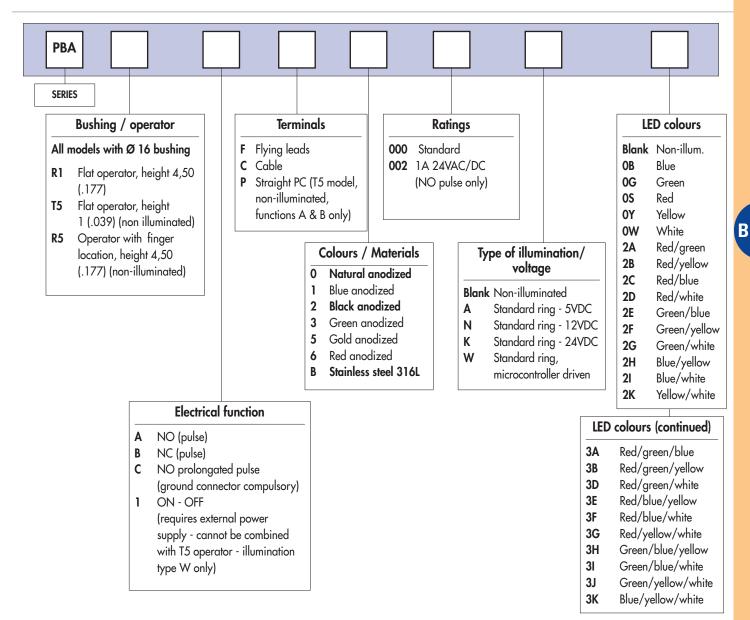
Legend : C = yellow, D = blue, B = black, A = same colour as LED * LED colour is indicated by the bottom of the product.

New!

PBA series

Piezo switches Ø 16 (.630)

Overview



For options not listed above, please contact APEM.

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

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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 10-621 (19 mm ac. flats) and 1 O-ring

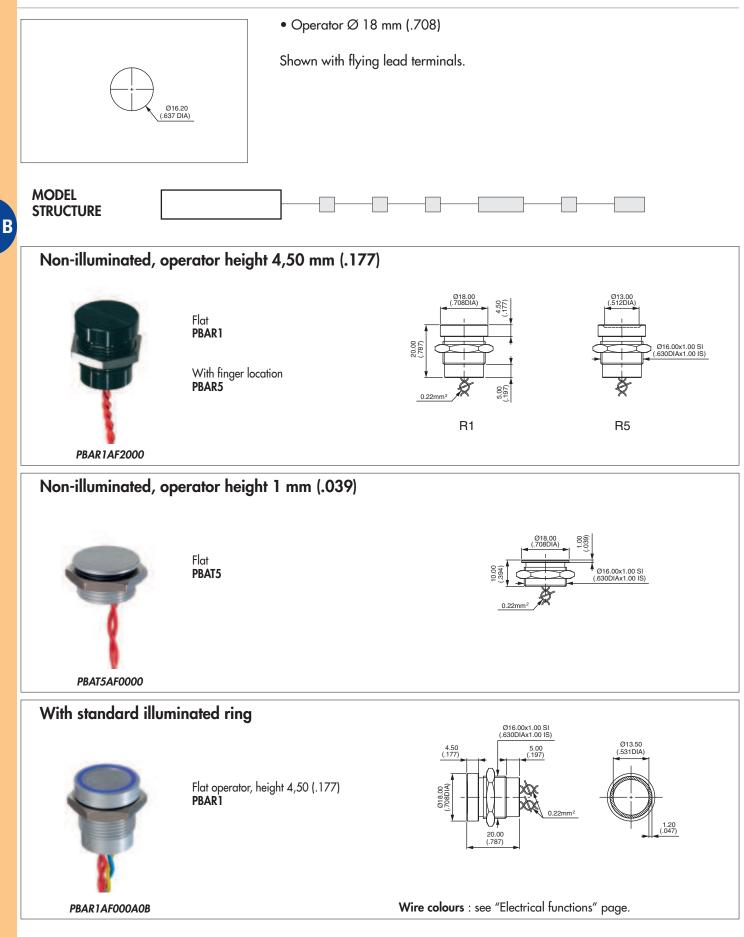
Packaging unit: 20 or 40 pieces

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New!

Piezo switches Ø 16 (.630)

Illuminated or non-illuminated

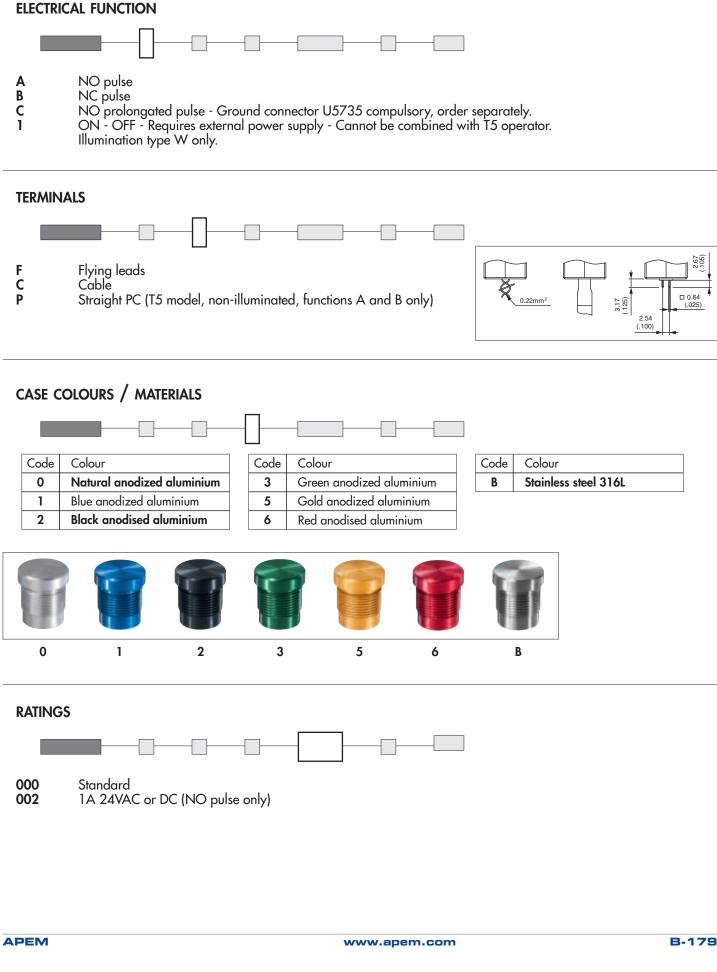






Piezo switches Ø 16 (.630)

Options

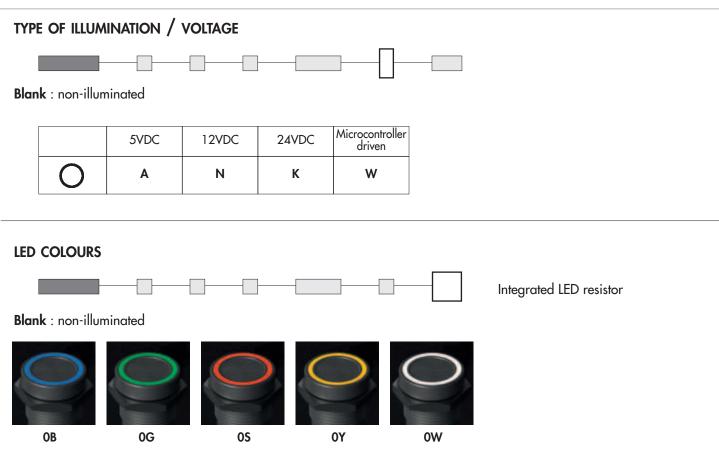


New!

Piezo switches Ø 16 (.630)

Options

B



Illuminated 1 LED *

OB : blue - OG : green - OS : red - OY : yellow - OW : white

Illuminated 2 LEDs

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

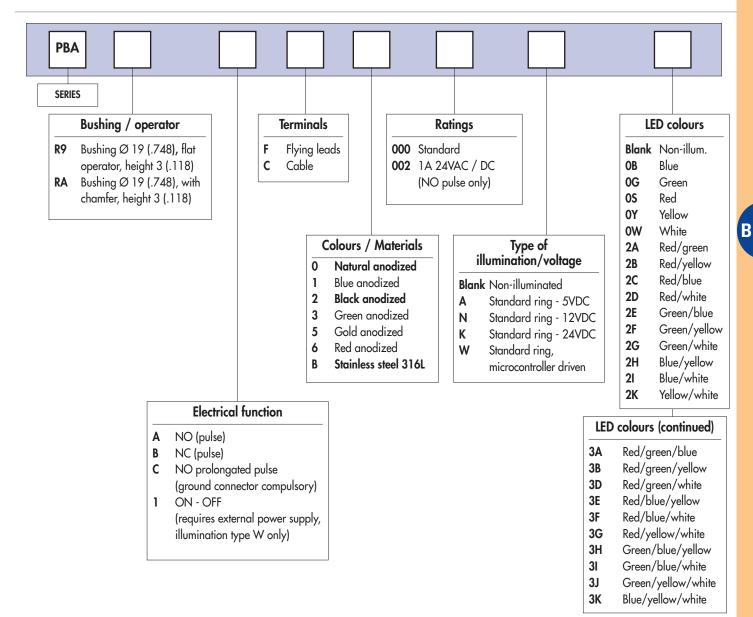
3A : red/green/blue - 3B : red/green/yellow - 3D : red/green/white - 3E : red/blue/yellow - 3F : red/blue/white 3G: red/yellow/white - 3H : green/blue/yellow - 3I : green/blue/white - 3J : green/yellow/white - 3K : blue/yellow/white

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



Piezo switches Ø 19 (.748)

Overview



For options not listed above, please contact APEM.

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



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

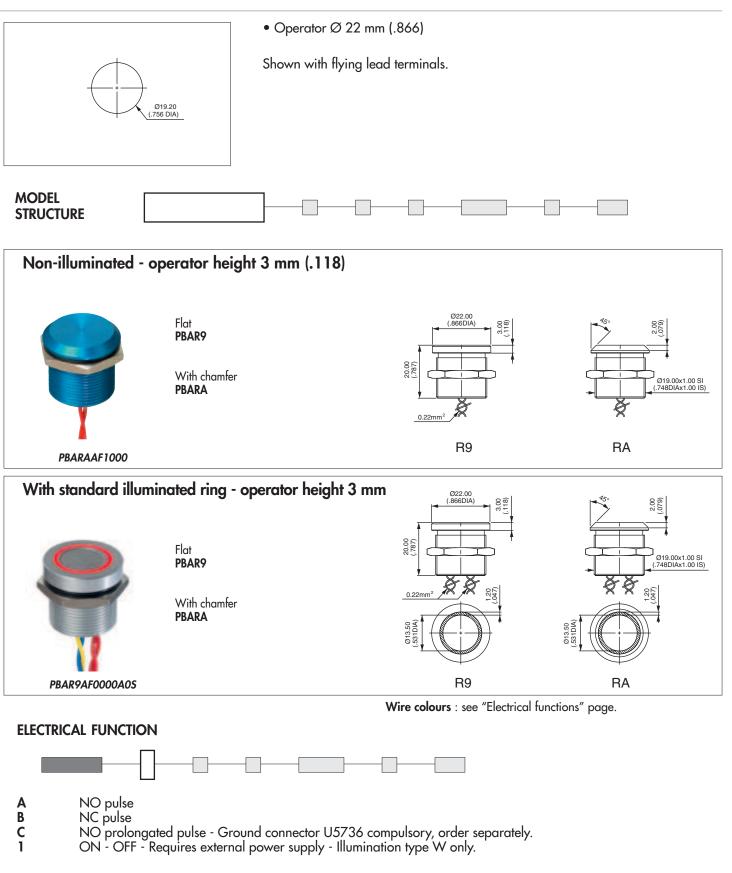
Mounting accessories : standard hardware supplied :1 hex nut 10-855-0 (22 mm ac. flats) and 1 O-ring

Packaging unit : 20 pieces

New!

Piezo switches Ø 19 (.748)

Illuminated or non-illuminated

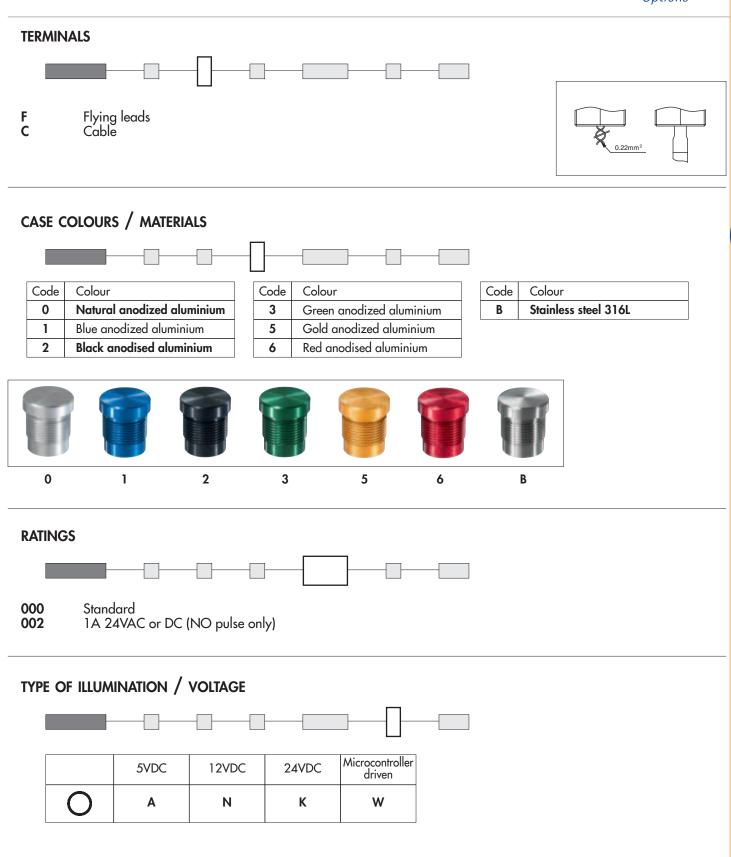






Piezo switches Ø 19 (.748)

Options



New!

Piezo switches Ø 19 (.748)

Options

LED COLOURS Blank : non-illuminated 0 B 0 G 0 S 0 Y 0 W

Illuminated 1 LED *

OB : blue - OG : green - OS : red - OY : yellow - OW : white

Illuminated 2 LEDs

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

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

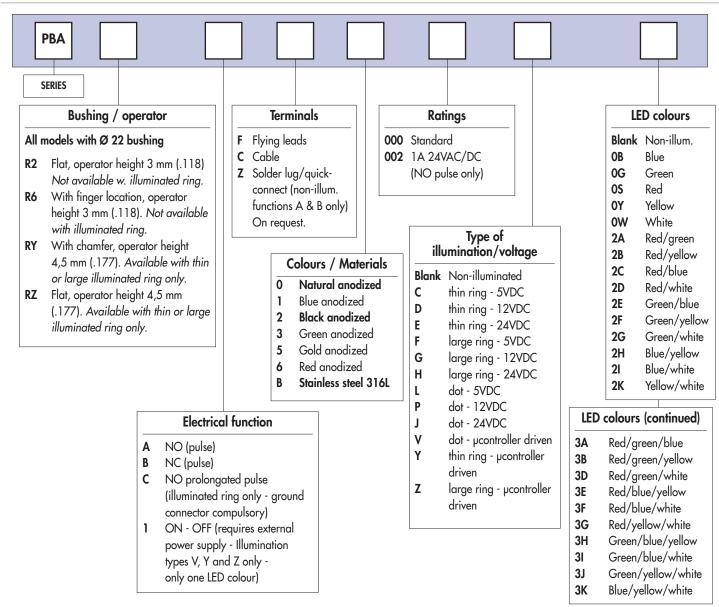
* LED colour is indicated by the bottom of the product.

New!

PBA series

Piezo switches Ø 22 (.866)

Overview



For options not listed above, please contact APEM.

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 10-856-0 (25 mm ac. flats) and 1 O-ring

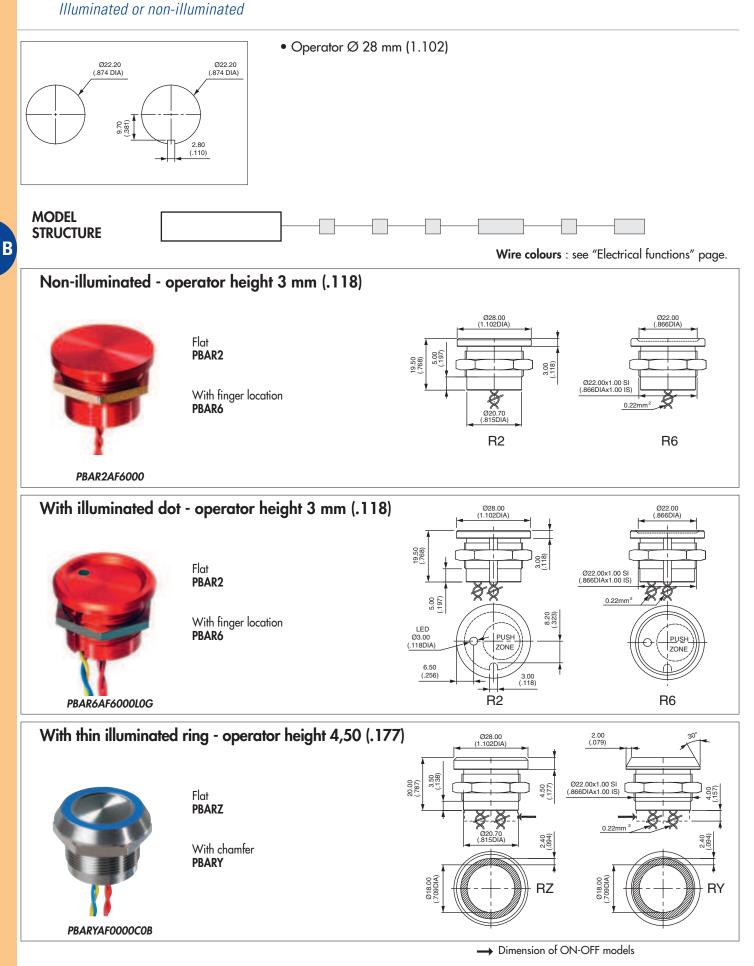
Packaging unit : 20 pieces

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New!

Piezo switches Ø 22 (.866)



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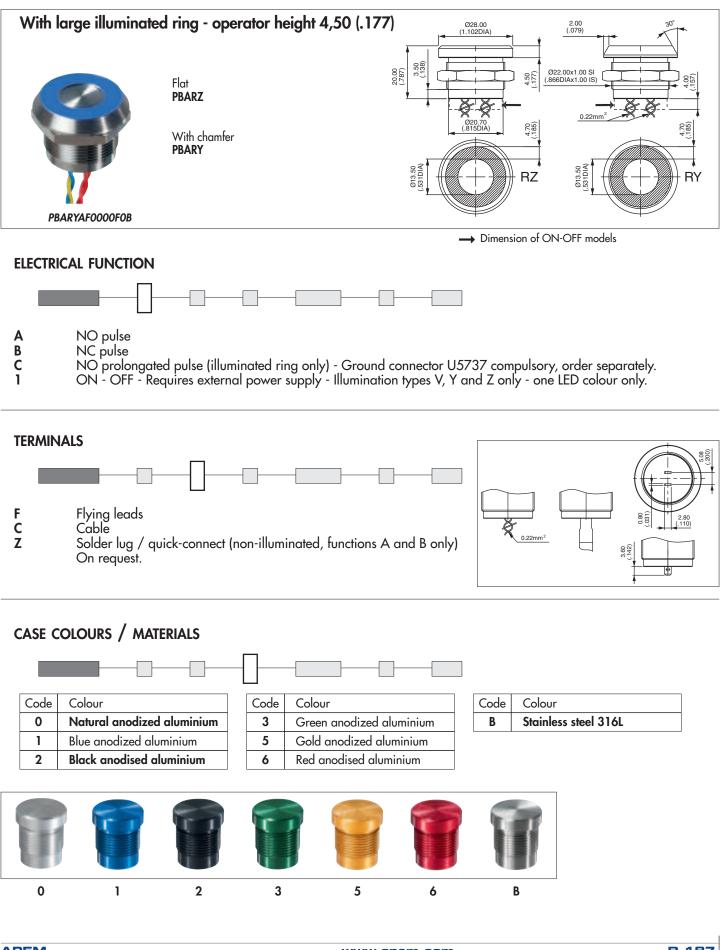
APEM





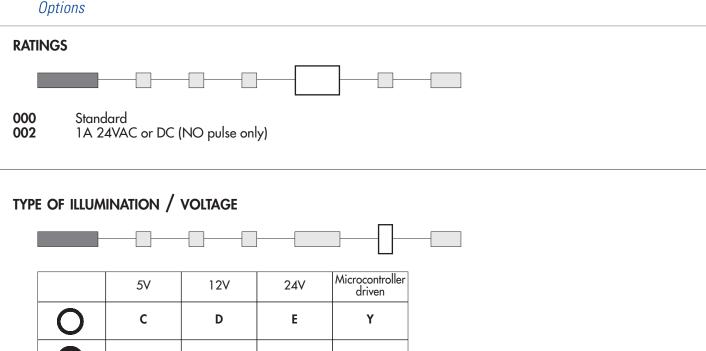
Piezo switches Ø 22 (.866)

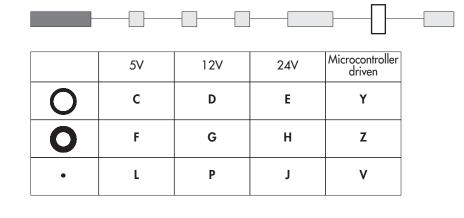
Illuminated or non-iluminated



New!

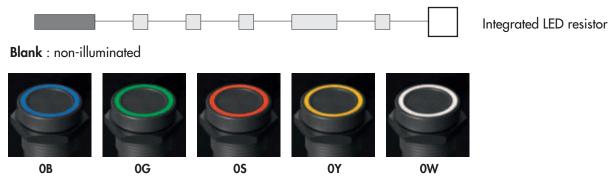
Piezo switches Ø 22 (.866)





LED COLOURS

B



Illuminated 1 LED *

OB : blue - OG : green - OS : red - OY : yellow - OW : white

Illuminated 2 LEDs

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

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 colour is indicated by the bottom of the product.





ATEX approved piezo switches

Distinctive features - Specifications - Overview

- □ Approved according to the ATEX 94/9/CE directive
- Sealed to IP66 (mounted on panel)
- **Easy to clean metal surface**
- Long life
- Illuminated models

ELECTRICAL SPECIFICATIONS

- Rated voltage : 5V to 24 VAC/DC max.
- Rated current : 200mA max. at 6VAC/DC 50mA max. at 24VAC/DC (power limited to 1,2W for user group II)
 Contact resistance (ON) : 10Ω max.
 Insulation resistance (OFF) : 5MΩ min.
 Make impulse time : depending on actuating force and speed

- LED : 5VDC, 10mA to 20mA depending on model

GENERAL SPECIFICATIONS

- Operating force : 2 to 6N Torque : 2,5 Nm max.
- Life expectancy : 50 million cycles
- Operating temperature : -40°C to +55°C
- EMC compatibility according to EN 61058-1
 In accordance with EN 60079-0, EN 60079-11, EN 61241-0, EN 61241-11, EN 60079-26 and EN 50303
- Sealing : IP66 per IEC 60529 (switches mounted on panel)

MATERIALS

- Case : 316L stainless steel
- Terminals : multi-wire leads 0,22 mm², length 300 mm (11.81)

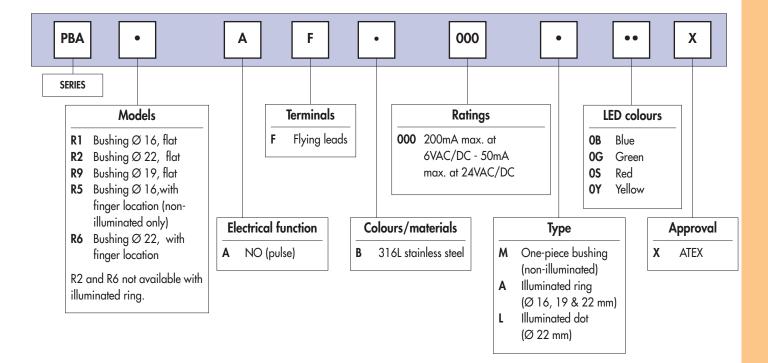
Standard hardware supplied: 1 hex nut 10-621 (19 mm ac. flats), 10-855-0 (22 mm ac. flats) or 10-856-0 (25 mm ac. flats), 1 O-Ring and 1 ground connector U5735, U5736 or U5737.

Packaging units :

- bushing Ø 16 : 40 pieces
- illuminated bushing Ø 16 : 20 pieces
- bushing Ø 19 : 20 pieces bushing Ø 22 : 20 pieces

Instructions for use :

see instruction notice NTPBA006.



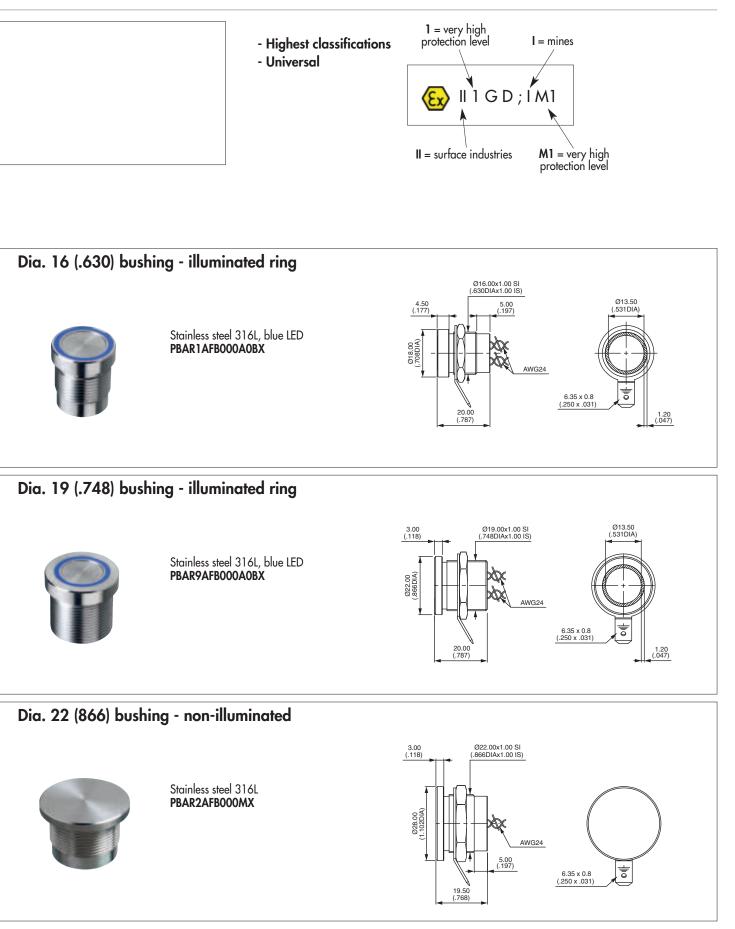


ATEX approved piezo switches









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