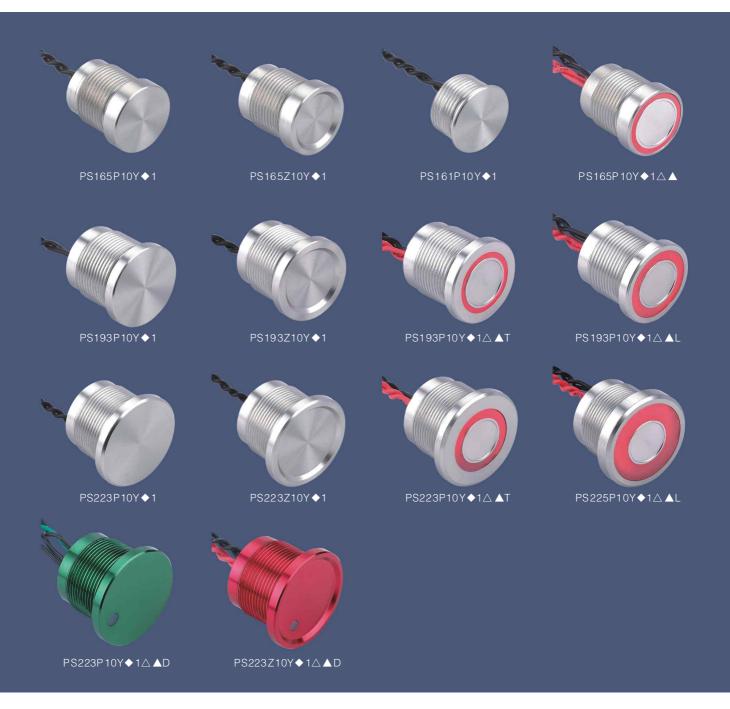
# PS series Piezoelectric switch



#### **Environmental specifications**

• Sealing : IP68

Vibration resistance : 10–500 Hz / 10 g
 Operating temperature : −40℃ to +75℃

#### **Materials**

- Case: aluminium, anodized
- Multi-wire leads section 0,22 mm² length 300 mm, twisted by pair
- Cable, length 300 mm, section depending on switch model
- PC terminals : bronze, tin plated

#### Electrical and general specifications

- Max. current/voltage rating: 1A 24VAC/DC or 200mA 24VAC/DC depending on version
- Switch resistance ON: 10 max.
- Switch resistance OFF: 5M min.
- Operating force : 2 to 6N
- Life expectancy : 50 million cycles
- LED consumption : Illuminated dot : 10mA Illuminated ring : 20mA

## Implication of Type

PS	16	*			<b>*</b>		Δ	<b>A</b>
Series	Mounting	Operator	Electrical function	Terminals	Colours / Materials	Switch ratings	LED colour	Lamp voltage
	dimensions	5P Flat operator,	10 NO (pulse)	Y Lead(length 30mm)	0 Natural anodized	1 200mA 24VAC/DC	Blank Non-illum.	Blank Non-illum.
		height 4,5		Other Lead length and	1 Black anodized		R Red	05 Standard ring - 5VDC
		1P Flat operator,		connection	2 Blue anodized		G Green	12 Standard ring - 12VDC
		height 1.0		mode can be customized.	3 Gold anodized		Y Yellow	24 Standard ring - 24VDC
		(non illuminated)			4 Red anodized		O Orange	
		5Z With finger location,			5 Green anodized		B Blue	
		height 4,5			S Stainless steel		W White	
		(non-illuminated)			316L			

PS	19	*			<b>*</b>		Δ	<b>A</b>
Series	Mounting	Operator	Electrical function	Terminals	Colours / Materials	Ratings	LED colour	Lamp voltage
	dimensions	3P flat operator,	10 NO (pulse)	Y Lead(length 30mm)	0 Natural anodized	1 200mA 24VAC/DC	Blank Non-illum.	Blank Non-illum.
		height 3.0		Other Lead length and	1 Black anodized		R Red	05T thin ring – 5VDC
		3Z with finger location,		connection	2 Blue anodized		G Green	12T thin ring - 12VDC
		height 3.0		mode can be customized.	3 Gold anodized		Y Yellow	24T thin ring – 24VDC
					4 Red anodized		O Orange	05L large ring - 5VDC
					5 Green anodized		B Blue	12L large ring - 12VDC
					S Stainless steel		W White	24L large ring – 24VDC
					316L			

PS	22	*			<b>•</b>		Δ	<b>A</b>
Series	Mounting	3P Flat operator, height 3.0	Electrical function	Terminals	Colours / Materials	Ratings	LED colour	Lamp voltage
	dimensions	(Not available with large	10 NO (pulse)	Y Lead(length 30mm)	0 Natural anodized	1 200mA	Blank Non-illum.	Blank Non-illum.
		illuminated ring.)		Other Lead length and	1 Black anodized	24VAC/DC	R Red	05T thin ring – 5VDC
		3Z With finger location, height 3.0,		connection	2 Blue anodized		G Green	12T thin ring - 12VDC
		(Not available with		mode can be customized.	3 Gold anodized		Y Yellow	24T thin ring - 24VDC
		illuminated ring).			4 Red anodized		O Orange	05L large ring - 5VDC
		5P Flat operator, height 4.5			5 Green anodized		B Blue	12L large ring - 12VDC
		(Available with large			S Stainless steel		W White	24L large ring - 24VDC
		illuminated ring only.)			316L			05D dot - 5VDC
								12D dot - 12VDC
								24D dot - 24VDC

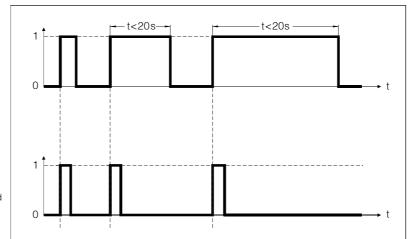
## Finger pressure applied to switch

1 = pressure

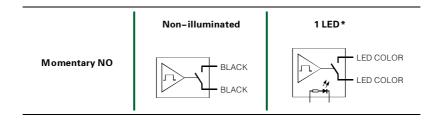
0 = no pressure



Momentary NO (pulse)No external power supply required



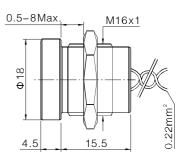
## Wiring diagrams



#### Non-illuminated, operator height 4.50mm, flat



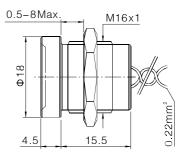




#### Non-illuminated, operator height 4.50mm, with finger location



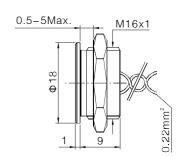
PS165Z10Y◆1



#### Non-illuminated, operator height 1mm, flat



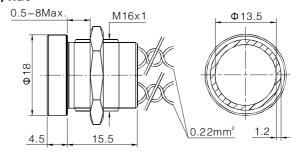
PS161P10Y◆1



#### With standard illuminated ring, operator height 4.50mm, flat



PS165P10Y◆1△ ▲



<b>♦</b>
Colours / Materials
0 Natural anodized
1 Blue anodized
2 Black anodized
3 Gold anodized
4 Red anodized
5 Green anodized
S Stainless steel

△
LED colour
Blank Non-illum.
R Red
G Green
Y Yellow
O Orange
B Blue
W White

Lamp voltage
Blank Non – illum.

05 Standard ring – 5VDC

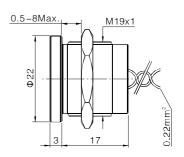
12 Standard ring – 12VDC

24 Standard ring – 24VDC

#### Non-illuminated - operator height 3mm, flat



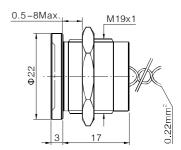




#### Non-illuminated - operator height 3mm, with finger location



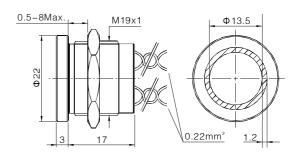
PS193Z10Y◆1



### With thin illuminated ring, operator height 3mm, flat



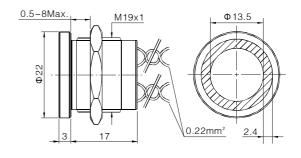
PS193P10Y◆1△▲T



#### With large illuminated ring, operator height 3 mm, with chamfer

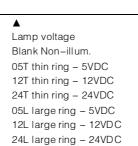


PS193P10Y♦1△▲L



Colours / Materials
0 Natural anodized
1 Blue anodized
2 Black anodized
3 Gold anodized
4 Red anodized
5 Green anodized
S Stainless steel

Δ
LED colour
Blank Non-illum.
RRed
G Green
Y Yellow
O Orange
B Blue
W White



#### Non-illuminated, operator height 3 mm, flat





0.5-8Max. M22x1 82 9 17

### Non-illuminated, operator height 3 mm, with finger location



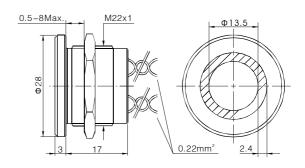
PS223Z10Y◆1

0.5-8Max. M22x1

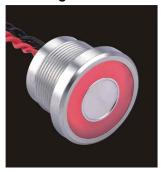
## With thin illuminated ring - operator height 3 mm, flat



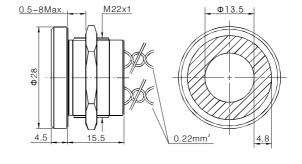
PS223P10Y **♦**1△ **▲**T



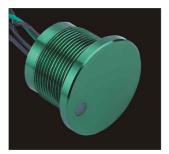
## With large illuminated ring, operator height 4.50mm, flat



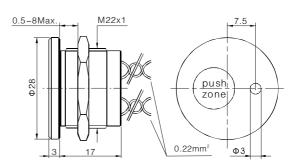
PS225P10Y◆1△▲L



## With illuminated dot, operator height 3 mm,flat



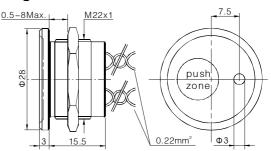
PS223P10Y◆1△▲D



## With illuminated dot, operator height 3 mm, with finger location



PS223Z10Y **♦**1△ **▲**D



<b>*</b>	Δ	<b>A</b>	
Colours / Materials	LED colour	Lamp voltage	
0 Natural anodized	Blank Non-illum.	Blank Non-illum.	
1 Blue anodized	R Red	05D dot – 5VDC	05L large ring - 5VDC
2 Black anodized	G Green	12D dot – 12VDC	12L large ring – 12VDC
3 Gold anodized	Y Yellow	24D dot – 24VDC	24L large ring - 24VDC
4 Red anodized	O Orange	05T thin ring – 5VDC	
5 Green anodized	B Blue	12T thin ring – 12VDC	
S Stainless steel	W White	24T thin ring – 24VDC	



Shower (IP68 sealing)



Home automation (design,customization)



Bath (IP68 sealing, customization)



Car wash (IP68 sealing, long life)



Matine (IP68 sealing, design)



Medical (easy to clean surface, no retention area)



Food processing (IP68 sealing)



Mining (IP68 sealing)