PS

PS series

Feature

★ Pressure-activated switch

★ 50 million life cycles

★ Mounting hole: 12, 16, 19, 22mm

★ Operation type: Momentary or latching

★ Waterproof level IP68, IP69K

★ It works in many harsh environments.

Performance Characteristic

Max. current / voltage rating: 200mA 24VAC/DC

Switch resistance ON: 10   max.

Switch resistance OFF: 5M   min.

Operating force: 5 to 10N

Operating life: 50 million cycles

LED consumption: Illuminated dot: 10mA   Illuminated ring: 20mA

Protecting level IP68/IP69K, IK06 (Stainless steel)

Vibration resistance: 10-500Hz / 10g

Operating temperature: -40   to + 75   (Instantaneous temperature difference not exceeding 20°C)

Terminal type: 26AWG, length 300mm, twisted by pair

PS Part-number Description

PS☆ ★ □ ■ ◆ ◇ △ ▲

Symbol	Symbol name	Specify
	Mounting hole	*12: Φ12mm / 16: Φ16mm / 19: Φ19mm / 22: Φ22mm*
	Operator	*1P: Flat operator. height 1 .0 (non illuminated) / 3P: Flat operator. height 3.0 / 3Z: Flat operator. height 3 .0 /*
		5P: Flat operator height 4.5 / 5Z: With finger location, height 4.5 (non illuminated)
	Electrical function	*10: NO(pulse) / 01: NC(pulse) / 10Z: NO(latching) / T30: 30 seconds delay (requires external power supply)*
	Terminal type	*Y: wire leading (length 30cm) Other wire length can be customized*
◆	Color / Material	*NT: Natural anodized / BU: Blue anodized / BK: Black anodized / GD: Gold anodized / GN: Green anodized / RD: Red anodized / SS: Stainless steel*
◇	Switch rating	*1: 200mA 24VAC/DC*
	LED color	*No letter means non illuminated / Momentary type with LED: R Red G Green Y Yellow B Blue W White / latching type with LED: NR Non-illum. / Red, NG Non-illum. / Green, NB Non-illum. / blue, Other LED color can be customized.*
	LED voltage and type	*No letter means non illuminated / 05T: Thin ring-5VDC / 12T: thin ring-12VDC / 24T: Thin ring-24VDC.*
		05L: large ring-5VDC/12T: large ring-12VDC/24T: large ring-24VDC.
		05D: Dot illum.-5VDC /12D: Dot illum.-12VDC/24D: Dot illum.-24VDC

Note: please carefully read the specific description of the product and select the corresponding code in the table according to different symbols.
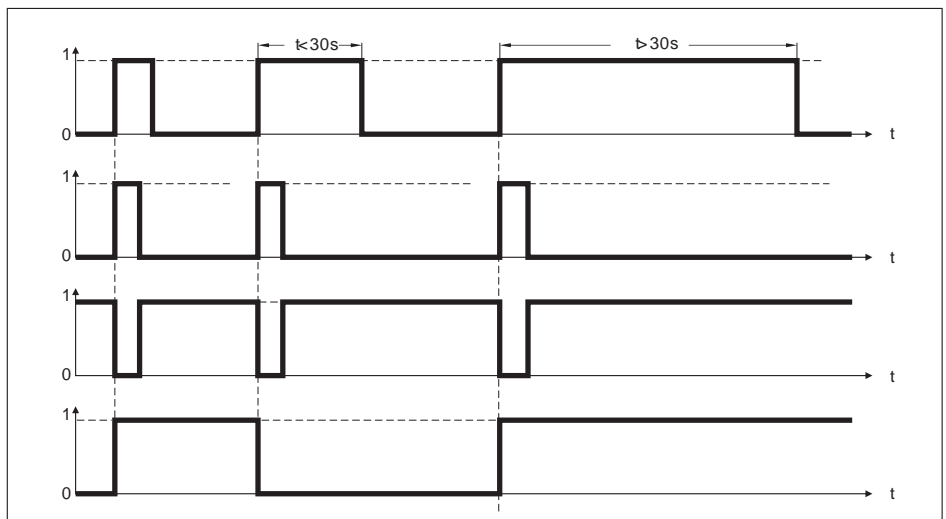
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PS

Operating status description

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

Wiring diagram

	Non- illuminated	1 ED*	2 LEDs	3 LEDs
Momentary NO (pulse)	Black / Black	Black / Black / X X	Black / Black / X X X X	Black / Black / X X X X X X
Momentary NO (pulse)	Black / Black	Black / Black / X X	Black / Black / X X X X	Black / Black / X X X X X X
Latching (ON-OFF)	White / 9- 24VAC/DC / White — Black / Black	White / 9- 24VAC/DC / White — Black / Black	White / 9- 24VAC/DC / White — Black / Black	

NOTE: X means the color of the wire depends on the color of the LED.

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With finger location, height 2.3mm (non illuminated)

PS123Z10YSS1

Electrical function	1NO (pulse)
Housing color	SS: Stainless steel
Rating current	200mA
Housing material	Stainless steel
Protection level	IP68, IP69K

Dimensions: 0.5~6Max. / M12x0.75 / Φ17.1 / 2.3 / 10.4 / 26AWGx300mm

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Flat operator .height 1.0 (non illuminated)
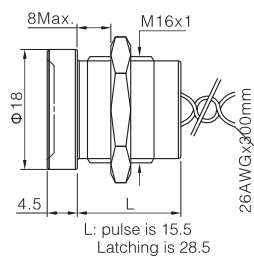
PS161P□Y◆1
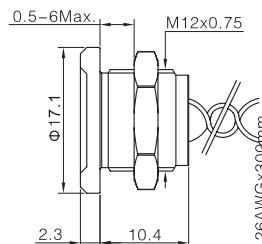
Electrical function□	1NO (pulse)/ 01 NC (pulse)
Housing color◆	NT Natural anodized / BU Blue anodized / BK Black anodized / GD Gold anodized / GN Green anodized / RD Red anodized / SS Stainless steel
Voltage	24VAC/DC
Rating current	200mA
Housing material	Aluminum /Stainless steel
Protection level	IP68, IP69K

Dimensions: 5Max. / M16x1 / Φ18 / 1 / 9 / 26AWGx300mm

Flat operator .height 4.5 (non illuminated)

PS165P□Y◆1

Electrical function□	1NO (pulse) / 01 NC (pulse) / 10Z: NO latching
Housing color◆	NT Natural anodized / BU Blue anodized / BK Black anodized / GD Gold anodized / GN Green anodized / RD Red anodized / SS Stainless steel
Voltage	24VAC/DC
Rating current	200mA
Housing material	Aluminum / Stainless steel
Protection level	IP68, IP69K

Dimensions: 8Max. / M16x1 / Φ18 / 4.5 / L / 26AWGx300mm
L: pulse is 15.5
Latching is 28.5

With finger location, height 4.5mm (non illuminated)

PS165Z□Y◆1

Electrical function□	1NO (pulse) / 01 NC (pulse) / 10Z: NO latching
Housing color◆	NT Natural anodized / BU Blue anodized / BK Black anodized / GD Gold anodized / GN Green anodized / RD Red anodized / SS Stainless steel
Voltage	24VAC/DC
Rating current	200mA
Housing material	Aluminum / Stainless steel
Protection level	IP68, IP69K

Dimensions: 8Max. / M16x1 / Φ18 / 4.5 / L / 26AWGx300mm
L: pulse is 15.5
Latching is 28.5

Flat operator .height 4.5 (Ring illuminated)

PS165P□Y◆1△▲

Electrical function	1NO (pulse)/ 01 NC (pulse)/10Z: NO latching
Housing color	NT Natural anodized / BU Blue anodized / BK Black anodized / GD Gold anodized / GN Green anodized / RD Red anodized / SS Stainless steel
LED color	R G Y B W
Voltage	5V, 12V, 24V
Rating current	200mA
Housing material	Aluminum / Stainless steel
Protection level	IP68

Dimensions: 8Max. / M16x1 / Φ13.7 / Φ18 / 4.5 / L / 26AWGx300mm / 1.2
L: pulse is 15.5
Latching is 28.5

PS

Flat operator .height 3mm (non illuminated)

PS193P□Y◆1

Electrical function□ 1NO (pulse) / 01 NC (pulse) / 10Z: NO latching
Housing color◆ NT Natural anodized / BU Blue anodized / BK Black anodized /
GD Gold anodized / GN Green anodized / RD Red anodized /
SS Stainless steel
Voltage 24VAC/DC
Rating current 200mA
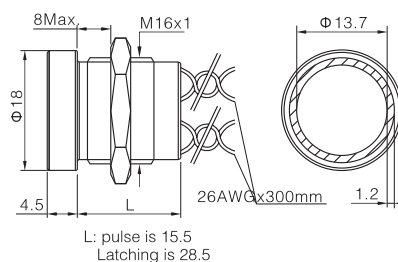Housing material Aluminum / Stainless steel
Protection level IP68, IP69K

8Max. M19x1
Φ22
3 L
26AWGx300mm
L: pulse is 17
Latching is 30

With finger location, height 3mm (non illuminated)

PS193Z□Y◆1

Electrical function□ 1NO (pulse) / 01 NC (pulse) / 10Z: NO latching
Housing color◆ NT Natural anodized / BU Blue anodized / BK Black anodized /
GD Gold anodized / GN Green anodized / RD Red anodized /
SS Stainless steel
Voltage 24VAC/DC
Rating current 200mA
Housing material Aluminum / Stainless steel
Protection level IP68, IP69K

8Max. M19x1
Φ22
3 L
26AWGx300mm
L: pulse is 17
Latching is 30

Flat operator .height 3mm (Thin Ring illuminated)
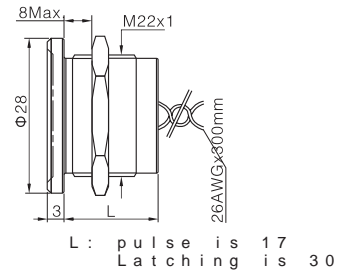
PS193P□Y◆1△▲

Electrical function 1NO (pulse)/ 01 NC (pulse)/10Z: NO latching
Housing color NT Natural anodized / BU Blue anodized / BK Black anodized /
GD Gold anodized / GN Green anodized / RD Red anodized /
SS Stainless steel
LED color R G Y B W
Voltage 5V, 12V, 24V
Rating current 200mA
Housing material Aluminum / Stainless steel
Protection level IP68

8Max. M19x1 Φ13.7
Φ22
3 L 26AWGx300mm 1.2
L: pulse is 17
Latching is 30

Flat operator .height 3mm (Large Ring illuminated)

PS193P□Y◆1△▲

Electrical function 1NO (pulse)/ 01 NC (pulse)/10Z: NO latching
Housing color NT Natural anodized / BU Blue anodized / BK Black anodized /
GD Gold anodized / GN Green anodized / RD Red anodized /
SS Stainless steel
LED color R G Y B W
Voltage 5V, 12V, 24V
Rating current 200mA
Housing material Aluminum / Stainless steel
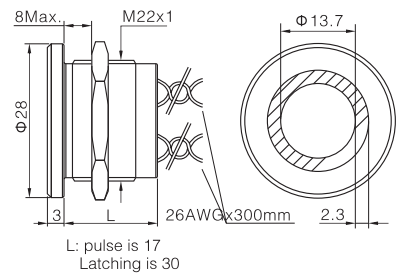Protection level IP68

8Max. M19x1 Φ13.7
Φ22
3 L 26AWGx300mm 2.4
L: pulse is 17
Latching is 30

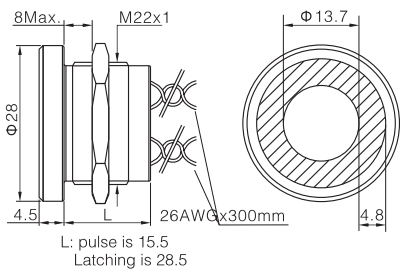**Flat operator .height 3mm (non illuminated)**

PS223P10Y◆1

Electrical function□ 1NO (pulse) / 01 NC (pulse) / 10Z: NO latching
Housing color◆ NT Natural anodized / BU Blue anodized / BK Black anodized /
GD Gold anodized / GN Green anodized / RD Red anodized /
SS Stainless steel
Voltage 24VAC/DC
Rating current 200mA
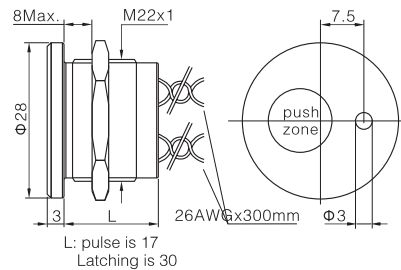Housing material Aluminum / Stainless steel
Protection level IP68, IP69K

8Max. M22x1
Φ28
3 L
26AWGx300mm
L: pulse is 17
Latching is 30

Φ 22mm Picture	Specifications	Dimensions

With finger location, height 3mm (non illuminated)

PS223Z10Y◆1

Electrical function☐	1NO (pulse) / 01 NC (pulse) / 10Z: NO latching
Housing color◆	NT Natural anodized / BU Blue anodized / BK Black anodized / GD Gold anodized / GN Green anodized / RD Red anodized / SS Stainless steel
Voltage	24VAC/DC
Rating current	200mA
Housing material	Aluminum / Stainless steel
Protection level	IP68, IP69K

8Max. M22x1 Φ28 3 L 26AWGx300mm

L: pulse is 17
Latching is 30

Flat operator .height 3mm (Thin Ring illuminated)

PS223P10Y◆1△▲

Electrical function	1NO (pulse)/ 01 NC (pulse)/10Z: NO latching
Housing color	NT Natural anodized / BU Blue anodized / BK Black anodized / GD Gold anodized / GN Green anodized / RD Red anodized / SS Stainless steel
LED color	R G Y B W
Voltage	5V, 12V, 24V
Rating current	200mA
Housing material	Aluminum / Stainless steel
Protection level	IP68

8Max. M22x1 Φ13.7 Φ28 3 L 26AWGx300mm 2.3

L: pulse is 17
Latching is 30

Flat operator .height 3mm (Large Ring illuminated)

PS225P10Y◆1△▲

Electrical function	1NO (pulse)/ 01 NC (pulse)/10Z: NO latching
Housing color	NT Natural anodized / BU Blue anodized / BK Black anodized / GD Gold anodized / GN Green anodized / RD Red anodized / SS Stainless steel
LED color	R G Y B W
Voltage	5V, 12V, 24V
Rating current	200mA
Housing material	Aluminum / Stainless steel
Protection level	IP68

8Max. M22x1 Φ13.7 Φ28 4.5 L 26AWGx300mm 4.8

L: pulse is 15.5
Latching is 28.5

Flat operator .height 3mm (Dot illuminated)

PS223P10Y◆1△▲

Electrical function	1NO (pulse)/ 01 NC (pulse)/10Z: NO latching
Housing color	NT Natural anodized / BU Blue anodized / BK Black anodized / GD Gold anodized / GN Green anodized / RD Red anodized / SS Stainless steel
LED color	R G Y B W
Voltage	5V, 12V, 24V
Rating current	200mA
Housing material	Aluminum
Protection level	IP68

8Max. M22x1 7.5 Φ28 push zone 3 L 26AWGx300mm Φ3

L: pulse is 17
Latching is 30

With finger location, height 3mm (Dot illuminated)

PS223Z10Y◆1△▲

Electrical function	1NO (pulse)/ 01 NC (pulse)/10Z: NO latching
Housing color	NT Natural anodized / BU Blue anodized / BK Black anodized / GD Gold anodized / GN Green anodized / RD Red anodized / SS Stainless steel
LED color	R G Y B W
Voltage	5V, 12V, 24V
Rating current	200mA
Housing material	Aluminum
Protection level	IP68

8Max. M22x1 7.5 Φ28 push zone 3 L 26AWGx300mm Φ3

L: pulse is 17
Latching is 30