Short body latching button
ONPOW63 Series

- ⊙ **Mounting hole diameter: Φ12**
- ⊙ **Switch characteristics: slow-action / single-throw**
- ⊙ **Product features:** Product features: innovative 12mm "short body self-locking" structure. Suitable for all kinds of scenes; more comfortable high flat keys, in line with the use of habits
- ⊙ **Protection grade: IP65/IP67.**

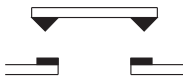## ONPOW63 Series model description

ONPOW63☆ ★ -□ ◇/J/△/▲/◎/※

Symbol	Symbol name	Specify
☆	Panel cutout dimension	12: Φ12mm / Φ8,10,16, 19, 22, 25mm is under development
★	Front shape	H: High Round / F: Flat Round / B: Spherical
□	Contact structure	10: 1NO / No letter means indicator
■	Operation type	Z: Latching / No letter means Momentary
◇	Lamp type	E: ◯ Ring / No letter means without lamp
◆	Connect type	J: Pin terminal
△	Lamp color	R: Red / G: Green / Y: Yellow / B: Blue / W: White
▲	Lamp voltage	6V / 12V ~24V with internal resistor, Other voltage levels can be customized and need to connect external resistors
◎	Shell material	S: stainless steel / A: Aluminium alloy(black)
※	IP Degree	No letter means IP65 / FP: IP67

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

Performance Characteristic

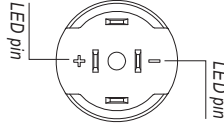|	
Operating temperature	-25 ~ + 55℃ (no freezing)
	keep the air flowing around illuminated push button
Operation Humidity	45~85%RH (no condensation)
Contact Resistor	≤50mΩ
Insulation Resistor	≥100MΩ(500VDC)
Maximum withstand voltage	1500V, 50Hz AC,1min
Vibration Resistance	50Hz, Amplitude 1.2mm
Solder-resistant heat	320℃ 3s
Switch rating	2A/36VDC
Mechanical Life	≥1000K cycles
Electrical Life	≥50K cycles
Base material	PA
Nut torque	about 0.3Nm
Operation Pressure	around 2.5N
Operation Travel	around 2.4mm
Protecting level	IP65(IP67 can be made),IK07

Switching Operation

Type	Diagram	Sign
X		

Lamp ratings

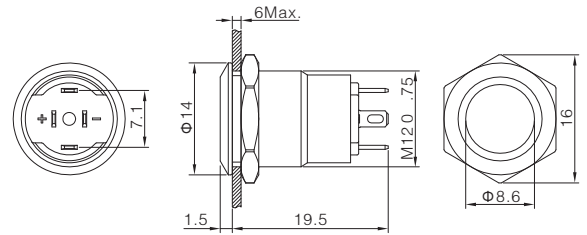| LED Life	Rated Current	Voltage fluctuation	Lamp Circuit Diagram
≥40000hours	≤15mA	DC: 10% AC: 20%	a ○—[R]—▷|— ○ b ≤24V, Use inner protection resistors and no positive or negative distinction.

Terminal Description

+/- are lamp terminals, the standard LED, have no difference of anode and cathode, lamp and switch are relatively independent and can use switch or peripheral circuit to control the lamp state
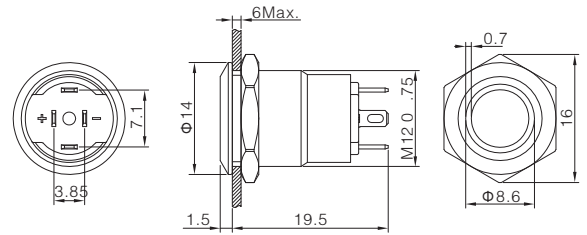
Product Picture	Description	Dimension

ONPOW6312F-10■/J/S/※

Contact structure	1NO
Operation type■	Z: Latching / No letter means momentary
Shell material	Stainless steel
Tail configuration	Terminal pins(2*0.5mm)
IP degree※	No letter means IP65 / FP: IP67
Applicable accessory	M12-12F

6Max. Φ14 7.1 M12.0 .75 16 Φ8.6 1.5 19.5

ONPOW6312F–10■E/J/△/▲/S/※

Contact structure	1NO
Operation type■	Z: Latching / No letter means momentary
LED color △	R G Y B W
LED voltage ▲	6V / 12V ~ 24V
Shell material	Stainless steel
Tail configuration	Terminal pins(2*0.5mm)
IP degree※	No letter means IP65 / FP: IP67
Applicable accessory	M12-12F

6Max. 0.7 Φ14 7.1 M12.0 .75 16 Φ8.6 3.85 1.5 19.5

ONPOW6312H-10■/J/S/※

Contact structure	1NO
Operation type■	Z: Latching / No letter means momentary
Shell material	Stainless steel
Tail configuration	Terminal pins(2*0.5mm)
IP degree※	No letter means IP65 / FP: IP67

6Max. Φ14 7.1 M12.0 .75 16 Φ8.6 3 19.5

ONPOW6312H–10■E/J/△/▲/S/※

Contact structure	1NO
Operation type■	Z: Latching / No letter means momentary
LED color △	R G Y B W
LED voltage ▲	6V / 12V ~ 24V
Shell material	Stainless steel
Tail configuration	Terminal pins(2*0.5mm)
IP degree※	No letter means IP65 / FP: IP67

6Max. 0.7 Φ14 7.1 M12.0 .75 16 Φ8.6 3.85 3 19.5

12mm Sealing cover M12–12F
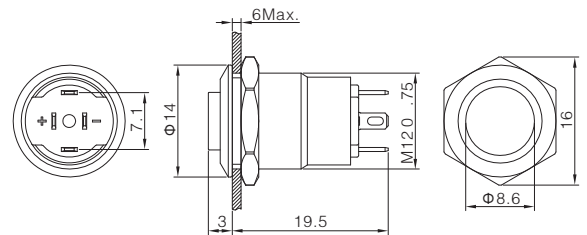
Flat Round
ONPOW6316F-10■/J/S/※

Contact structure   1NO
Operation type■   Z: Latching / No letter means momentary
Shell material   Stainless steel
Tail configuration   Terminal pins(2*0.5mm)
IP degree※   No letter means IP65 / FP: IP67
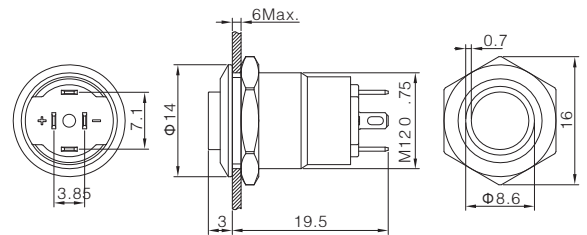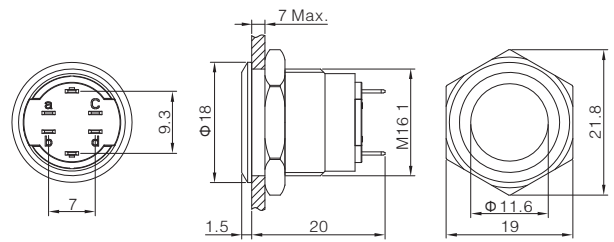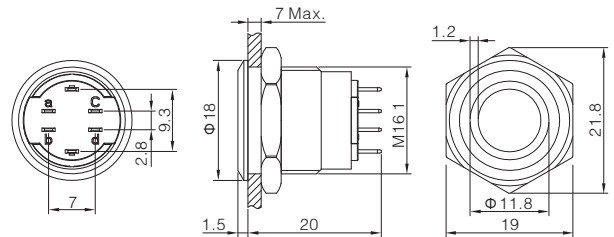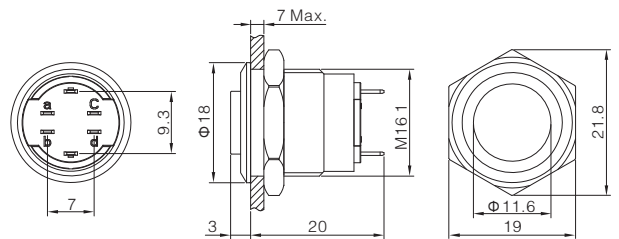Applicable accessory   M12-16F

Ring-illuminated
ONPOW6316F–10■E/J/△/▲/S/※

Contact structure   1NO
Operation type■   Z: Latching / No letter means momentary
LED color △   R G Y B W
LED voltage ▲   6V / 12V~24V
Shell material   Stainless steel
Tail configuration   Terminal pins(2*0.5mm)
IP degree※   No letter means IP65 / FP: IP67
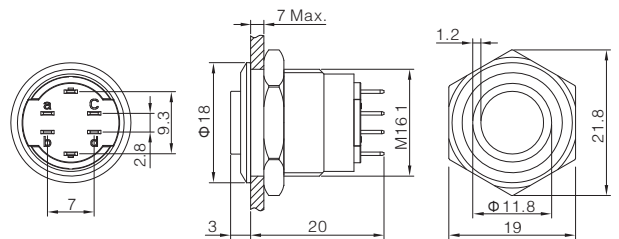Applicable accessory   M12-16F

High Round
ONPOW6316H-10■/J/S/※

Contact structure   1NO
Operation type■   Z: Latching / No letter means momentary
Shell material   Stainless steel
Tail configuration   Terminal pins(2*0.5mm)
IP degree※   No letter means IP65 / FP: IP67
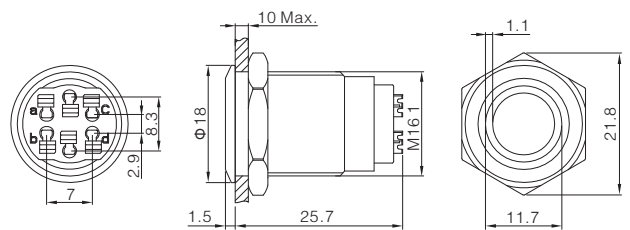Applicable accessory   M12-16H

High Head Ring-illuminated
ONPOW6316H–10■E/J/△/▲/S/※

Contact structure   1NO
Operation type■   Z: Latching / No letter means momentary
LED color △   R G Y B W
LED voltage ▲   6V / 12V~24V
Shell material   Stainless steel
Tail configuration   Terminal pins(2*0.5mm)
IP degree※   No letter means IP65 / FP: IP67
Applicable accessory   M12-16H

Ring-illuminated
ONPOW6316F-10■/J/S/※

Contact structure   1NO
Operation type■   Z: Latching / No letter means momentary
LED color △   R G Y B W
LED voltage ▲   6V / 12V~24V
Shell material   Stainless steel
Tail configuration   Quick-connect type socket
IP degree※   No letter means IP65 / FP: IP67
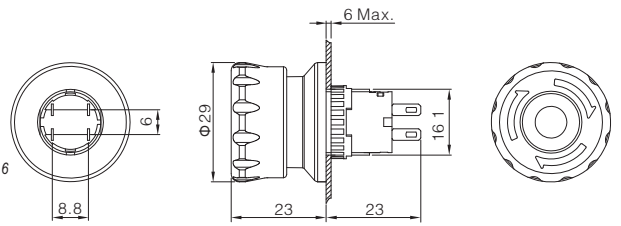Applicable accessory   M12-16F
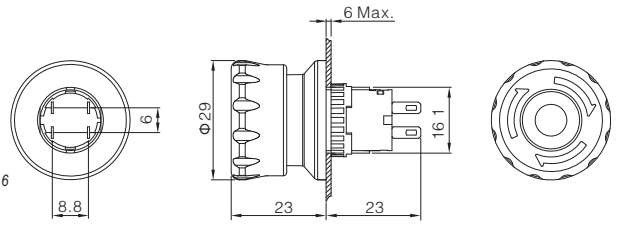
16mm Sealing cover
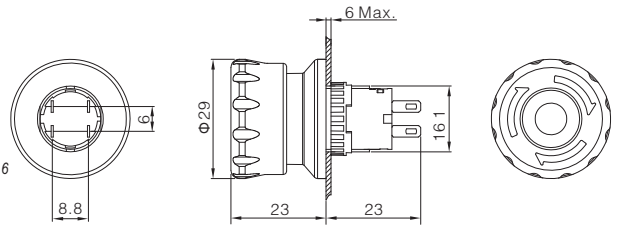M12–16F

16mm Sealing cover
M12–16H

Emergency stop (plastic shell)
ONPOW6316-□TS/J/PA/※

Contact structure	1NC/2NC/1NO1NC
Shell material	PA
Tail configuration	Terminal pins(2*0.5mm)
IP degree※	No letter means IP65
Applicable accessory	Warning Ring S10-1650/Protective cover T34-16

6 Max.
Φ29
6
16 1
8.8
23 23

Emergency stop (plastic shell)
ONPOW6316-01TS/J/△/▲/PA/※

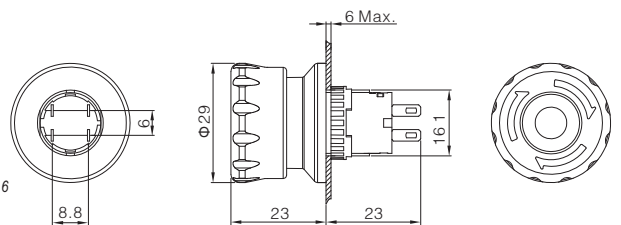|	
ontact structure	1NC
LED color △	[R] [G] [Y] [B] [W]
Shell material	PA
Tail configuration	Terminal pins(2*0.5mm)
IP degree※	No letter means IP65
Applicable accessory	Warning Ring S10-1650/Protective cover T34-16

6 Max.
Φ29
6
16 1
8.8
23 23

Emergency stop (Aluminium alloy shell)
ONPOW6316-□TS/J/※

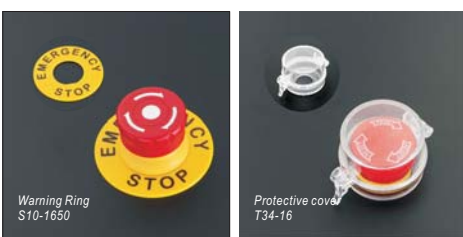|	
Contact structure	1NC/2NC/1NO1NC
Shell material	PA
Tail configuration	Terminal pins(2*0.5mm)
IP degree※	No letter means IP65
Applicable accessory	Warning Ring S10-1650/Protective cover T34-16

6 Max.
Φ29
6
16 1
8.8
23 23

Emergency stop (Aluminium alloy shell)
ONPOW6316-01TS/J/※

Contact structure	1NC
LED color △	[R] [G] [Y] [B] [W]
Shell material	PA
Tail configuration	Terminal pins(2*0.5mm)
IP degree※	No letter means IP65
Applicable accessory	Warning Ring S10-1650/Protective cover T34-16

6 Max.
Φ29
6
16 1
8.8
23 23

Emergency Stop Pin Description
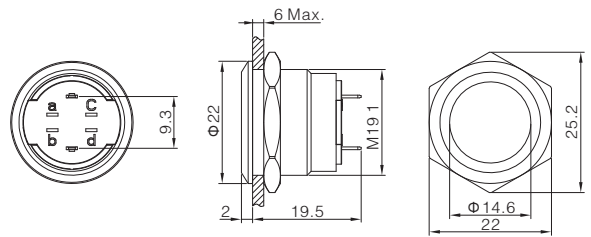
NC NO LED choose one of three   NC

Emergency stop button defaults to a set of NC switches,
the other two pins can be selected NC, NO, LED,
Due to structural reasons, it is not recommended to leave it blank
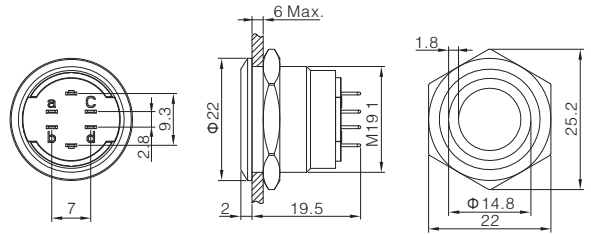
Warning Ring
S10-1650

Protective cover
T34-16

Flat Round
ONPOW6319F-10■/J/S/※

Contact structure   1NO
Operation type■   Z: Latching / No letter means momentary
Shell material   Stainless steel
Tail configuration   Terminal pins(2*0.5mm)
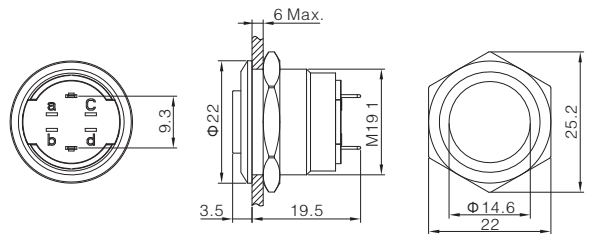IP degree※   No letter means IP65 / FP: IP67
Applicable accessory M12-19F

Ring-illuminated
ONPOW6319F–10■E/J/△/▲/S/※

Contact structure   1NO
Operation type■   Z: Latching / No letter means momentary
LED color △   R G Y B W
LED voltage ▲   6V / 12V~24V
Shell material   Stainless steel
Tail configuration   Terminal pins(2*0.5mm)
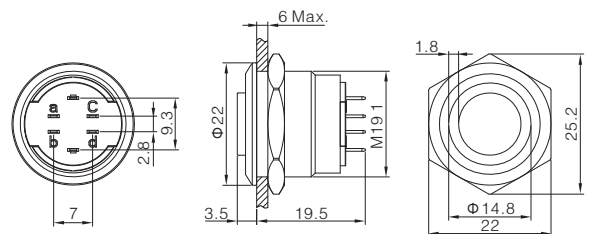IP degree※   No letter means IP65 / FP: IP67
Applicable accessory M12-19F

High Round
ONPOW6319H-10■/J/S/※

Contact structure   1NO
Operation type■   Z: Latching / No letter means momentary
Shell material   Stainless steel
Tail configuration   Terminal pins(2*0.5mm)
IP degree※   No letter means IP65 / FP: IP67
Applicable accessory M12-19H

High Head Ring-illuminated
ONPOW6319H–10■E/J/△/▲/S/※

Contact structure   1NO
Operation type■   Z: Latching / No letter means momentary
LED color △   R G Y B W
LED voltage ▲   6V / 12V~24V
Shell material   Stainless steel
Tail configuration   Terminal pins(2*0.5mm)
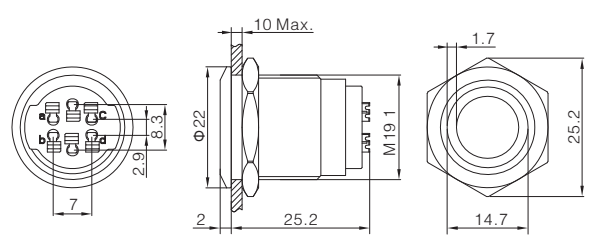IP degree※   No letter means IP65 / FP: IP67
Applicable accessory M12-19H

Ring-illuminated
ONPOW6319F–10■E/J/△/▲/S/※

Contact structure   1NO
Operation type■   Z: Latching / No letter means momentary
LED color △   R G Y B W
LED voltage ▲   6V / 12V~24V
Shell material   Stainless steel
Tail configuration   Quick-connect type socket
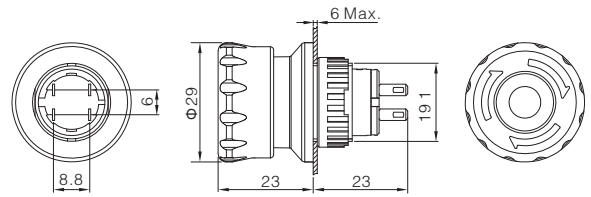IP degree※   No letter means IP65 / FP: IP67
Applicable accessory M12-19F

19mm Sealing cover
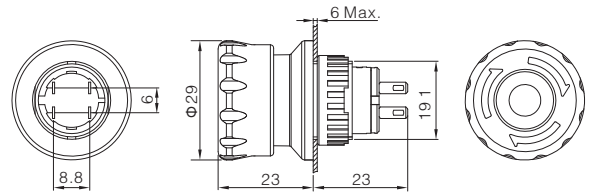M12-19F

19mm Sealing cover
M12-19H

Emergency stop (plastic shell)
ONPOW6319-□TS/J/PA/※

Contact structure   1NC/2NC/1NO1NC
Shell material   PA
Tail configuration   Terminal pins(2*0.5mm)
IP degree※   No letter means IP65
Applicable accessory Warning Ring S10-1950/Protective cover T34-19

6 Max.
Φ29
6
19 1
8.8
23   23

Emergency stop (plastic shell)
ONPOW6319-01TS/J/PA/※

Contact structure   1NC
LED color △   R G Y B W
Shell material   PA
Tail configuration   Terminal pins(2*0.5mm)
IP degree※   No letter means IP65
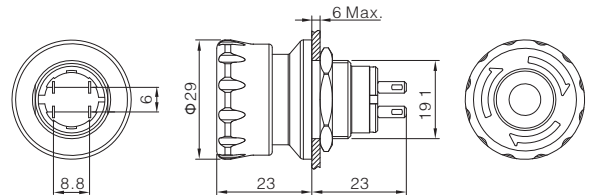Applicable accessory Warning Ring S10-1950/Protective cover T34-19
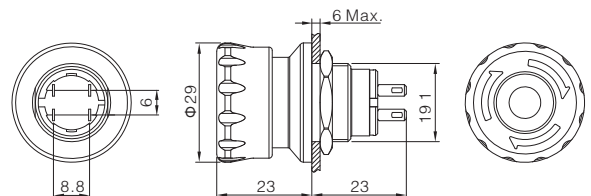
6 Max.
Φ29
6
19 1
8.8
23   23

Emergency stop (Aluminium alloy shell)
ONPOW6319-□TS/J/※

Contact structure   1NC/2NC/1NO1NC
Shell material   PA
Tail configuration   Terminal pins(2*0.5mm)
IP degree※   No letter means IP65
Applicable accessory Warning Ring S10-1950/Protective cover T34-19

6 Max.
Φ29
6
19 1
8.8
23   23

Emergency stop (Aluminium alloy shell)
ONPOW6319-01TS/J/※

Contact structure   1NC
LED color △   R G Y B W
Shell material   PA
Tail configuration   Terminal pins(2*0.5mm)
IP degree※   No letter means IP65
Applicable accessory Warning Ring S10-1950/Protective cover T34-19

6 Max.
Φ29
6
19 1
8.8
23   23

Emergency Stop Pin Description

NC NO LED choose one of three ——————— NC

Emergency stop button defaults to a set of NC switches,
the other two pins can be selected NC, NO, LED,
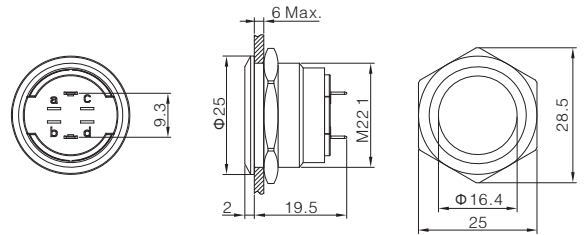Due to structural reasons, it is not recommended to leave it blank
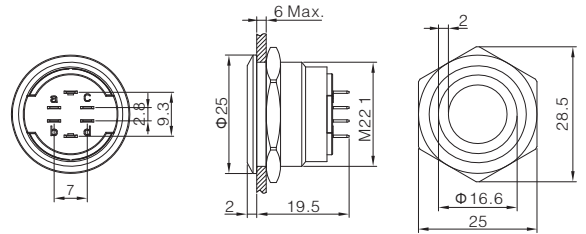

Warning Ring
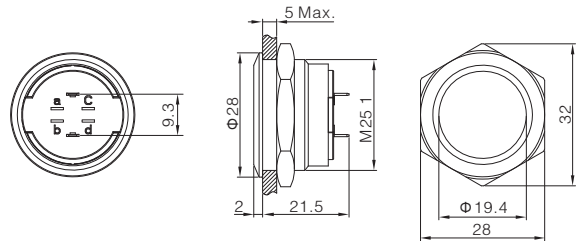S10-1950

Protective cover
M34-19

Flat Round
ONPOW6322F-10■/J/S/※

Contact structure	1NO
Operation type■	Z: Latching / No letter means momentary
Shell material	Stainless steel
Tail configuration	Terminal pins(2*0.5mm)
IP degree※	No letter means IP65 / FP: IP67
Applicable accessory	M12-22F

Ring-illuminated
ONPOW6322F–10■E/J/△/▲/S/※

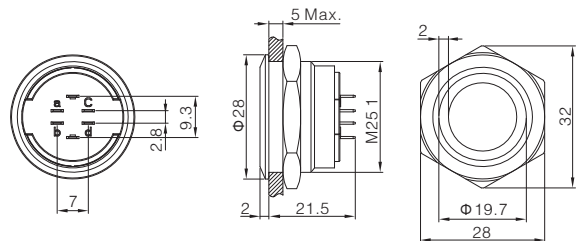|	
Contact structure	1NO
Operation type■	Z: Latching / No letter means momentary
LED color △	R G Y B W
LED voltage ▲	6V / 12V~24V
Shell material	Stainless steel
Tail configuration	Terminal pins(2*0.5mm)
IP degree※	No letter means IP65 / FP: IP67
Applicable accessory	M12-22F

Flat Round
ONPOW6325F-10■/J/S/※

Contact structure	1NO
Operation type■	Z: Latching / No letter means momentary
Shell material	Stainless steel
Tail configuration	Terminal pins(2*0.5mm)
IP degree※	No letter means IP65 / FP: IP67
Applicable accessory	M12-25F

Ring-illuminated
ONPOW6325F–10■E/J/△/▲/S/※

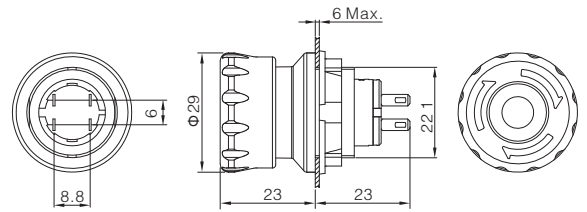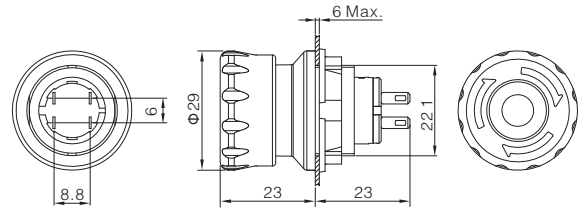|	
Contact structure	1NO
Operation type■	Z: Latching / No letter means momentary
LED color △	R G Y B W
LED voltage ▲	6V / 12V~24V
Shell material	Stainless steel
Tail configuration	Terminal pins(2*0.5mm)
IP degree※	No letter means IP65 / FP: IP67
Applicable accessory	M12-25F

22mm Sealing cover
M12-22F

22mm Sealing cover
M12-22H

25mm Sealing cover
M12-25F

25mm Sealing cover
M12-25H

Emergency stop (plastic shell)
ONPOW6322-□TS/J/PA/※

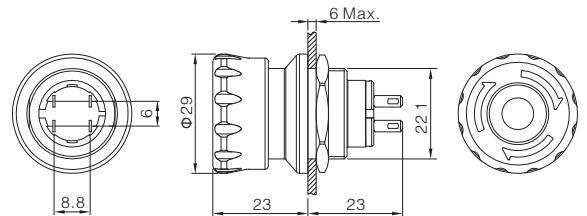|	
Contact structure	1NC/2NC/1NO1NC
Shell material	PA
Tail configuration	Terminal pins(2*0.5mm)
IP degree※	No letter means IP65
Applicable accessory	Warning Ring S10-2250/Protective cover T16

Emergency stop (plastic shell)
ONPOW6322-01TS/J/PA/※

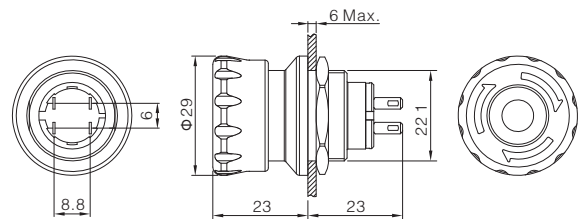|	
Contact structure	1NC
LED color △	R G Y B W
Shell material	PA
Tail configuration	Terminal pins(2*0.5mm)
IP degree※	No letter means IP65
Applicable accessory	Warning Ring S10-2250/Protective cover T16

Emergency stop (Aluminium alloy shell)
ONPOW6322-□TS/J/※

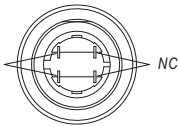|	
Contact structure	1NC/2NC/1NO1NC
Shell material	PA
Tail configuration	Terminal pins(2*0.5mm)
IP degree※	No letter means IP65
Applicable accessory	Warning Ring S10-2250/Protective cover T16

Emergency stop (Aluminium alloy shell)
ONPOW6322-01TS/J/※

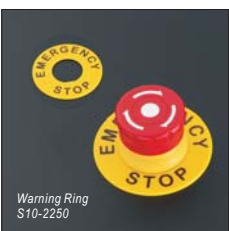|	
Contact structure	1NC
LED color △	R G Y B W
Shell material	PA
Tail configuration	Terminal pins(2*0.5mm)
IP degree※	No letter means IP65
Applicable accessory	Warning Ring S10-2250/Protective cover T16

Emergency Stop Pin Description

NC NO LED choose one of three   NC

Emergency stop button defaults to a set of NC switches,
the other two pins can be selected NC, NO, LED,
Due to structural reasons, it is not recommended to leave it blank

Warning Ring
S10-2250

Protective cover
T16