



NP8 Series Pushbuttons

1. General

Electric ratings: AC50/60Hz, AC415V/DC250V;
Degree of protection: IP65
Standard: IEC/EN60947-5-1

2. Operating conditions

- 2.1 Ambient temperature is $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$, the average temperature during 24 hours couldn't exceed $+35^{\circ}\text{C}$.
- 2.2 Altitude: $\leq 2000\text{m}$.
- 2.3 Atmosphere condition: Relative humidity of the atmosphere couldn't exceed 50% when the highest temperature is $+40^{\circ}\text{C}$; much higher relative humidity is allowable under the condition of lower temperature, for example, when the temperature reaches $+20^{\circ}\text{C}$, the relative humidity is up to 90%. As for dews, which contingently appear due to change of temperature, special steps should be taken.
- 2.4 Pollution grade: 3
- 2.5 Installation category: II
- 2.6 Tightening torque is $0.8 \sim 1.2\text{N}\cdot\text{m}$ for the cable terminals.
Cross section of the cable connection is $0.5 \sim 2.5\text{mm}^2$, and 8mm conductor length is needed.

3. Technical data

3.1 Refer to table below for rated values related to utilization category.

AC-15	Rated operational voltage,V	415	240	120
	Rated operational current,A	1.9	3	6
DC-13	Rated operational voltage,V	250	125	-
	Rated operational current,A	0.27	0.55	-

3.2 Refer to table 3 for basic parameters of illuminated pushbutton.

Basic parameters	LED lamp
Rated operational current	$\leq 20\text{mA}$
Rated operational voltage	AC/DC 6V,12V,24V,36V,AC110V~230V

3.3 Durability

Mechanical life:

Flush, mushroom-headed and illuminated version:

3×10^6 operation circles.

Rotary, double-headed, self-locking and keyed version:

1×10^5 operation circles.

Electric life:

Flush, mushroom-headed and illuminated version:

AC 1×10^6 / DC 2.5×10^5 operation circles.

Rotary, double-headed, self-locking and key type button:

1×10^5 operation circles.

3.4 Short-circuit protective device: gG16

4. Features

- 4.1 Operating mechanism features
bright colors and streamline surface.
- 4.2 Modular design.
Operating system, adapter, contact system and illuminating system can be freely combined to realize different functions.
- 4.3 Convenient for mounting
and dismounting thanks to snap-on structure.
- 4.4 Automatic locking function of the central adaptor makes it convenient and reliable for mounting and connection.
- 4.5 The terminal screw is available
with anti-loosening mechanism to protect it against loosening from the body during transportation.
- 4.6 LED lamp with high brightness and long service life ensures reliable indication.

NP8-□□ ZS/□□	Model	Color		
	NP8-02ZS/24		—	2
	NP8-11ZS/24		1	1

★ Φ 30 Mushroom Latching Pushbutton.turn to release
(Non-illuminated)

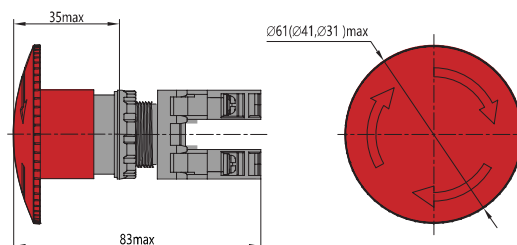
NP8-□□ ZS/□□	Model	Color		
	NP8-10ZS/34		1	—
	NP8-10ZS/34		—	1

★ Φ 30 Mrushoom Latching Pushbutton.turn to release
(Non-illuminated)

NP8-□□ ZS/□□	Model	Color		
	NP8-20ZS/34		2	—
	NP8-02ZS/34		—	2
	NP8-11ZS/34		1	1

Dimension(mm)

NP8-□□ ZS/□



★ Double-headed flush momentary button (Non-illuminated)

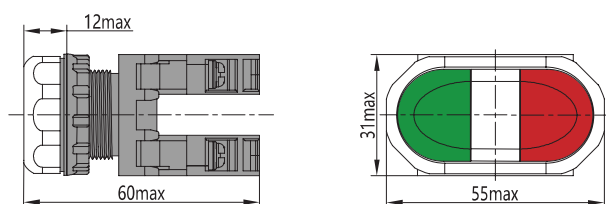
NP8-□□ S/□	Lamp-Voltage	Model	Color		
	Non-illuminated	NP8-20S	+	2	—
		NP8-02S	+	—	2
		NP8-11S	+	1	1

★ Double-headed flush momentary button (Illuminated)

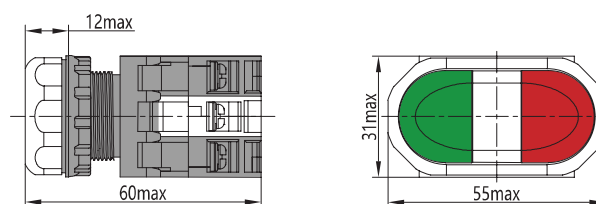
NP8-□□ SD/□	Lamp-Voltage	Model	Color		
	LED: AC/DC 6V, 12V, 24V, 36V; AC 110V ~ 230V	NP8-20SD	+	2	—
		NP8-02SD	+	—	2
		NP8-11SD	+	1	1

Dimension(mm)

NP8-□□ S/□



NP8-□□ SD/□



NP8	-	0	1	BN	1	/	RED	AC/DC 24V
Product Series		NO Contact Quantity	NC Contact Quantity	Function	Additional Function		Color	Control Voltage
		1 2 3	1 2 3	BN: flush button BND: illuminated flush button GN: projecting button GND: illuminated projecting button M: mushroom button MD: illuminated mushroom button ZS: latching mushroom button X: selector XD: illuminated selector Y: key selector S: double head button SD: illuminated double head button D: indicator light	for mushroom button: 1: Φ40mm 2: Φ60mm 3: Φ30mm for selector: 21: 2-position, latching 22: 2-position, self-return 31: 3-position, latching 33: 3-position, self-return 37: 3-position, latching on the left, self-return on the right 38: 3-position, latching on the right, self-return on the left		WHT: white RED: red GRN: green BLU: blue YEL: yellow BLK: black ORG: orange	AC/DC 12V AC/DC 24V AC/DC 36V AC 110~220V AC 110~230V

Type	Color or Function	Contact	Model Description	Code
Illuminated projecting button	Red, AC 110V-230V LED	1 NO+1NC	NP8-11GND RED AC 110V-230V	667608
Illuminated projecting button	Red, AC/DC 24V LED	1 NO+1NC	NP8-11GND RED AC/DC 24V	667303
Illuminated projecting button	Green, AC 110V-220V LED	1 NO+1NC	NP8-11GND GRN AC 110V-220V	667312
Illuminated projecting button	Green, AC 110V-230V LED	1 NO+1NC	NP8-11GND GRN AC 110V-230V	667607
Illuminated projecting button	Green, AC/DC 24V LED	1 NO+1NC	NP8-11GND GRN AC/DC 24V	667302
Mushroom button	Red, Φ40mm	1 NO+1NC	NP8-11M/1 RED	667265
Mushroom button	Green, Φ40mm	1 NO+1NC	NP8-11M/1 GRN	667264
Mushroom button	Yellow, Φ40mm	1 NO+1NC	NP8-11M/1 YEL	578938
Mushroom button	Black, Φ40mm	1 NO+1NC	NP8-11M/1 BLK	578946
Mushroom button	White, Φ60mm	1 NO+1NC	NP8-11M/2 WHT	578940
Mushroom button	Red, Φ60mm	1 NO+1NC	NP8-11M/2 RED	578942
Mushroom button	Green, Φ60mm	1 NO+1NC	NP8-11M/2 GRN	578941
Mushroom button	Blue, Φ60mm	1 NO+1NC	NP8-11M/2 BLU	578944
Mushroom button	Yellow, Φ60mm	1 NO+1NC	NP8-11M/2 YEL	578943
Illuminated mushroom button	Red, Φ40mm, AC 110V-220V LED	1 NO+1NC	NP8-11MD/1 RED AC 110V-220V	667285
Illuminated mushroom button	Red, Φ40mm, AC 110V-230V LED	1 NO+1NC	NP8-11MD/1 RED AC 110V-230V	667598
Illuminated mushroom button	Red, Φ40mm, AC/DC 24V LED	1 NO+1NC	NP8-11MD/1 RED AC/DC 24V	667275
Illuminated mushroom button	Green, Φ40mm, AC 110V-220V LED	1 NO+1NC	NP8-11MD/1 GRN AC 110V-220V	667284
Illuminated mushroom button	Green, Φ40mm, AC 110V-230V LED	1 NO+1NC	NP8-11MD/1 GRN AC 110V-230V	667597
Illuminated mushroom button	Green, Φ40mm, AC/DC 24V LED	1 NO+1NC	NP8-11MD/1 GRN AC/DC 24V	667274
Illuminated mushroom button	Green, Φ40mm, AC/DC 36V LED	1 NO+1NC	NP8-11MD/1 GRN AC/DC 36V	667378
Illuminated mushroom button	Yellow, Φ40mm, AC/DC 24V LED	1 NO+1NC	NP8-11MD/1 yellow AC/DC 24V	522614
Illuminated mushroom button	Red, Φ60mm, AC 110V-220V LED	1 NO+1NC	NP8-11MD/2 RED AC 110V-220V	667362
Illuminated mushroom button	Red, Φ60mm, AC 110V-230V LED	1 NO+1NC	NP8-11MD/2 RED AC 110V-230V	667631
Illuminated mushroom button	Green, Φ60mm, AC 110V-220V LED	1 NO+1NC	NP8-11MD/2 GRN AC 110V-220V	667363
Illuminated mushroom button	Green, Φ60mm, AC 110V-230V LED	1 NO+1NC	NP8-11MD/2 GRN AC 110V-230V	667632
Double headed button	1 black and 1 white flush button	1 NO+1NC	NP8-11S BK/WH	210408
Double headed button	1 green and 1 red flush button	1 NO+1NC	NP8-11S	667178
Illuminated double headed button	1 green and 1 red flush button, 1 orange pilot light, AC 110V-220V LED	1 NO+1NC	NP8-11SD ORG AC 110V-220V	667177
Illuminated double headed button	1 green and 1 red flush button, 1 orange pilot light, AC 110-230V LED	1 NO+1NC	NP8-11SD ORG AC 110V-230V	293451
Illuminated double headed button	1 green and 1 red flush button, 1 orange pilot light, AC/DC 24V LED	1 NO+1NC	NP8-11SD ORG AC/DC 24V	667171
Illuminated double headed button	1 green and 1 red flush button, 1 white pilot light, AC 110V-220V LED	1 NO+1NC	NP8-11SD WHT AC 110V-220V	667172
Illuminated double headed button	1 green and 1 red flush button, 1 white pilot light, AC 110V-230V LED	1 NO+1NC	NP8-11SD WHT AC 110V-230V	667562
Illuminated double headed button	1 green and 1 red flush button, 1 white pilot light, AC/DC 24V LED	1 NO+1NC	NP8-11SD WHT AC/DC 24V	667166
Illuminated double headed button	1 green and 1 red flush button, 1 red pilot light, AC 110V-220V LED	1 NO+1NC	NP8-11SD RED AC 110V-220V	667174
Illuminated double headed button	1 green and 1 red flush button, 1 red pilot light, AC 110V-230V LED	1 NO+1NC	NP8-11SD RED AC 110V-230V	667564
Illuminated double headed button	1 green and 1 red flush button, 1 red pilot light, AC/DC 24V LED	1 NO+1NC	NP8-11SD RED AC/DC 24V	667168
Illuminated double headed button	1 green and 1 red flush button, 1 green pilot light, AC 110V-220V LED	1 NO+1NC	NP8-11SD GRN AC 110V-220V	667173
Illuminated double headed button	1 green and 1 red flush button, 1 green pilot light, AC 110V-230V LED	1 NO+1NC	NP8-11SD GRN AC 110V-230V	667563
Illuminated double headed button	1 green and 1 red flush button, 1 green pilot light, AC/DC 24V LED	1 NO+1NC	NP8-11SD GRN AC/DC 24V	667167
Illuminated double headed button	1 green and 1 red flush button, 1 blue pilot light, AC 110V-220V LED	1 NO+1NC	NP8-11SD BLU AC 110V-220V	667176
Illuminated double headed button	1 green and 1 red flush button, 1 blue pilot light, AC 110V-230V LED	1 NO+1NC	NP8-11SD BLU AC 110V-230V	667566
Illuminated double headed button	1 green and 1 red flush button, 1 blue pilot light, AC/DC 24V LED	1 NO+1NC	NP8-11SD BLU AC/DC 24V	667170
Illuminated double headed button	1 green and 1 red flush button, 1 yellow pilot light, AC 110V-220V LED	1 NO+1NC	NP8-11SD YEL AC 110V-220V	667175