



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.

5. NP8 pushbutton

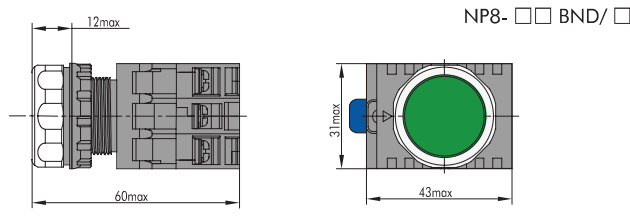
★ Momentary Flush Pushbutton-(Non illuminated)

NP8- □□ BN/ □□	Model	Color	1	2
	NP8-10BN/1	○	1	-
	NP8-10BN/2	●	1	-
	NP8-10BN/3	●	1	-
	NP8-10BN/4	●	1	-
	NP8-10BN/5	●	1	-
	NP8-10BN/6	●	1	-
	NP8-01BN/1	○	-	1
	NP8-01BN/2	●	-	1
	NP8-01BN/3	●	-	1
	NP8-01BN/4	●	-	1
	NP8-01BN/5	●	-	1
	NP8-01BN/6	●	-	1
	NP8-20BN/1	○	2	-
	NP8-20BN/2	●	2	-
	NP8-20BN/3	●	2	-
	NP8-20BN/4	●	2	-
	NP8-20BN/5	●	2	-
	NP8-20BN/6	●	2	-
	NP8-02BN/1	○	-	2
	NP8-02BN/2	●	-	2
	NP8-02BN/3	●	-	2
	NP8-02BN/4	●	-	2
	NP8-02BN/5	●	-	2
	NP8-02BN/6	●	-	2
	NP8-11BN/1	○	1	1
	NP8-11BN/2	●	1	1
	NP8-11BN/3	●	1	1
	NP8-11BN/4	●	1	1
	NP8-11BN/5	●	1	1
	NP8-11BN/6	●	1	1

★ Momentary Flush Pushbutton-illuminated AC/DC6V, 12V, 24V, 36V, AC110V~230V

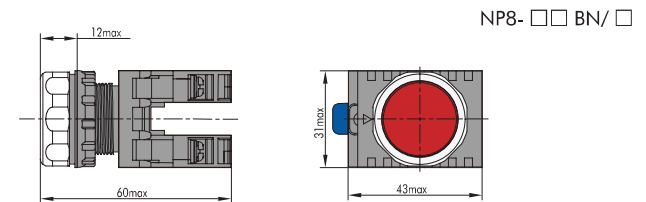
NP8- □□ BND/ □□	Model	Color	1	2
	NP8-10BND/1	○	1	-
	NP8-10BND/3	●	1	-
	NP8-10BND/4	●	1	-
	NP8-10BND/5	●	1	-
	NP8-10BND/6	●	1	-
	NP8-01BND/1	○	-	1
	NP8-01BND/3	●	-	1
	NP8-01BND/4	●	-	1
	NP8-01BND/5	●	-	1
	NP8-01BND/6	●	-	1

Dimension(mm)



NP8- □□ BN/ □□	Model	Color	1	2
	NP8-30BN/1	○	3	-
	NP8-30BN/2	●	3	-
	NP8-30BN/3	●	3	-
	NP8-30BN/4	●	3	-
	NP8-30BN/5	●	3	-
	NP8-30BN/6	●	3	-
	NP8-03BN/1	○	-	3
	NP8-03BN/2	●	-	3
	NP8-03BN/3	●	-	3
	NP8-03BN/4	●	-	3
	NP8-03BN/5	●	-	3
	NP8-03BN/6	●	-	3
	NP8-12BN/1	○	1	2
	NP8-12BN/2	●	1	2
	NP8-12BN/3	●	1	2
	NP8-12BN/4	●	1	2
	NP8-12BN/5	●	1	2
	NP8-12BN/6	●	1	2
	NP8-21BN/1	○	2	1
	NP8-21BN/2	●	2	1
	NP8-21BN/3	●	2	1
	NP8-21BN/4	●	2	1
	NP8-21BN/5	●	2	1
	NP8-21BN/6	●	2	1

Dimension(mm)



NP8- □□ BND/ □□	Model	Color	1	2
	NP8-20BND/1	○	2	-
	NP8-20BND/3	●	2	-
	NP8-20BND/4	●	2	-
	NP8-20BND/5	●	2	-
	NP8-20BND/6	●	2	-
	NP8-02BND/1	○	-	2
	NP8-02BND/3	●	-	2
	NP8-02BND/4	●	-	2
	NP8-02BND/5	●	-	2
	NP8-02BND/6	●	-	2
	NP8-11BND/1	○	1	1
	NP8-11BND/3	●	1	1
	NP8-11BND/4	●	1	1
	NP8-11BND/5	●	1	1
	NP8-11BND/6	●	1	1

Type	Color or Function	Contact	Model Description	Code
Flush button	Blue	1 NO	NP8-10BN BLU	578645
Flush button	Yellow	1 NO	NP8-10BN YEL	667333
Flush button	Black	1 NO	NP8-10BN BLK	578647
Illuminated flush button	Orange, AC 110V-220V LED	1 NO	NP8-10BND ORG AC 110V-220V	667337
Illuminated flush button	White, AC 110V-220V LED	1 NO	NP8-10BND WHT AC 110V-220V	578662
Illuminated flush button	White, AC 110V-230V LED	1 NO	NP8-10BND WHT AC 110V-230V	667643
Illuminated flush button	White, AC/DC 24V LED	1 NO	NP8-10BND WHT AC/DC 24V	667862
Illuminated flush button	Red, AC 110V-220V LED	1 NO	NP8-10BND RED AC 110V-220V	667252
Illuminated flush button	Red, AC 110V-230V LED	1 NO	NP8-10BND RED AC 110V-230V	667585
Illuminated flush button	Red, AC/DC 24V LED	1 NO	NP8-10BND RED AC/DC 24V	667241
Illuminated flush button	Green, AC 110V-220V LED	1 NO	NP8-10BND GRN AC 110V-220V	667251
Illuminated flush button	Green, AC 110V-230V LED	1 NO	NP8-10BND GRN AC 110V-230V	667584
Illuminated flush button	Green, AC/DC 12V LED	1 NO	NP8-10BND GRN AC/DC 12V	667382
Illuminated flush button	Green, AC/DC 24V LED	1 NO	NP8-10BND GRN AC/DC 24V	667240
Illuminated flush button	Green, AC/DC 36V LED	1 NO	NP8-10BND GRN AC/DC 36V	667385
Illuminated flush button	Blue, AC 110V-220V LED	1 NO	NP8-10BND BLU AC 110V-220V	578663
Illuminated flush button	Blue, AC 110V-230V LED	1 NO	NP8-10BND BLU AC 110V-230V	667644
Illuminated flush button	Blue, AC/DC 12V LED	1 NO	NP8-10BND BLU AC/DC 12V	667384
Illuminated flush button	Blue, AC/DC 24V LED	1 NO	NP8-10BND BLU AC/DC 24V	578945
Illuminated flush button	Yellow, AC 110V-220V LED	1 NO	NP8-10BND YEL AC 110V-220V	667321
Illuminated flush button	Yellow, AC 110V-230V LED	1 NO	NP8-10BND YEL AC 110V-230V	667613
Illuminated flush button	Yellow, AC/DC 12V LED	1 NO	NP8-10BND YEL AC/DC 12V	667383
Illuminated flush button	Yellow, AC/DC 24V LED	1 NO	NP8-10BND YEL AC/DC 24V	667320
Projecting button	Red	1 NO	NP8-10GN RED	667293
Projecting button	Green	1 NO	NP8-10GN GRN	667292
Projecting button	Blue	1 NO	NP8-10GN BLU	667380
Projecting button	Yellow	1 NO	NP8-10GN YEL	667379
Illuminated projecting button	Red, AC 110V-220V LED	1 NO	NP8-10GND RED AC 110V-220V	667311
Illuminated projecting button	Red, AC 110V-230V LED	1 NO	NP8-10GND RED AC 110V-230V	667606
Illuminated projecting button	Red, AC/DC 24V LED	1 NO	NP8-10GND RED AC/DC 24V	667301
Illuminated projecting button	Green, AC 110V-220V LED	1 NO	NP8-10GND GRN AC 110V-220V	667310
Illuminated projecting button	Green, AC 110V-230V LED	1 NO	NP8-10GND GRN AC 110V-230V	667605
Illuminated projecting button	Green, AC/DC 24V LED	1 NO	NP8-10GND GRN AC/DC 24V	667300
Illuminated projecting button	Yellow, AC 110V-220V LED	1 NO	NP8-10GND YEL AC 110V-220V	667332
Illuminated projecting button	Yellow, AC 110V-230V LED	1 NO	NP8-10GND YEL AC 110V-230V	667619
Mushroom button	Red, Φ 40mm	1 NO	NP8-10M/1 RED	667263
Mushroom button	Green, Φ 40mm	1 NO	NP8-10M/1 GRN	667262
Mushroom button	Black, Φ 40mm	1 NO	NP8-10M/1 BLK	578935
Mushroom button	Red, Φ 60mm	1 NO	NP8-10M/2 RED	578656
Mushroom button	Green, Φ 60mm	1 NO	NP8-10M/2 GRN	578657
Illuminated mushroom button	White, Φ 40mm, AC 110V-220V LED	1 NO	NP8-10MD/1 WHT AC 110V-220V	578664
Illuminated mushroom button	White, Φ 40mm, AC 110V-230V LED	1 NO	NP8-10MD/1 WHT AC 110V-230V	667645
Illuminated mushroom button	Red, Φ 40mm, AC 110V-220V LED	1 NO	NP8-10MD/1 RED AC 110V-220V	667283
Illuminated mushroom button	Red, Φ 40mm, AC 110V-230V LED	1 NO	NP8-10MD/1 RED AC 110V-230V	667596