

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° C $\sim +40^{\circ}$ C, the average temperature during 24 hours couldn't exceed +35°C.
- 2.2 Altitude: ≤2000m.
- 2.3 Atmosphere condition: Relative humidity of the atmosphere couldn't exceed 50% when the highest temperature is +40°C; much higher relative humidity is allowable under the condition of lower temperature, for example, when the temperature reaches $+20\,^{\circ}\text{C}$, the relatice humidity is up to 90%. As for dews, which contingently appear due to change of temperature, special steeps 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 0.5~2.5mm², 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
AC-13	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	≤20mA			
Rated operational voltage	AC/DC 6V,12V,24V,36V,AC110V~230V			

3.3 Durability

Mechanical life:

Flush, mushroom-headed and illuminated version:

3×106 operation circles.

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

1×10⁵ operation circles.

Electric life:

Flush, mushroom-headed and illuminated version:

AC 1×10⁶ / DC 2.5×10⁵ operation circles.

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

1×10⁵ 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-loosing 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.









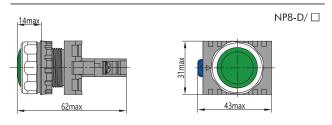
★ Light

NP8-D/□	Lamp-Voltage	Model	Color
		NP8-D/1	0
	LED: AC/AD 6V,	NP8-D/3	
1	12V, 24V, 36V;	NP8-D/4	
E S	AC110V ~ 230V	NP8-D/5	
		NP8-D/6	

★ Selector Switches (2 positions)-(Non-illuminated)

NP8- □□ X /21 □	Metal	Color	Selector Switches	{	ł
CAT C	NP8-10X/211			1	-
	NP8-10X/212			1	-
	NP8-10X/213			1	-
	NP8-10X/214			1	-
	NP8-10X/215			1	-
	NP8-10X/216		7\ /	1	-
	NP8-01X/211			-	1
	NP8-01X/212			-	1
	NP8-01X/213			-	1
17	NP8-01X/214			-	1
	NP8-01X/215		7	-	1
	NP8-01X/216			-	1
NP8- □□ X /21 □	Metal	Color	Selector Switches	{	þ
	NP8-10X/221			1	-
	NP8-10X/222			1	-
	NP8-10X/223			1	-
	NP8-10X/224			1	-
	NP8-10X/225			1	-
	NP8-10X/226			1	-
	NP8-01X/221			-	1
I	NP8-01X/222		-	-	1
NP8 (III)	NP8-01X/223		_/	-	1
DC-19-MC169 12	NP8-01X/224			-	1
	NP8-01X/225			-	1
					_
	NP8-01X/226			-	1
		Color	Selector Switches	-	ł
	NP8-01X/226	Color			
	NP8-01X/226 Metal	Color		{	ł
	Metal NP8-20X/211	Color		2	ł
	Metal NP8-20X/211 NP8-20X/212	Color		2 2	}
	Metal NP8-20X/211 NP8-20X/212 NP8-20X/213	Color		2 2 2	} - -
	Metal NP8-20X/211 NP8-20X/212 NP8-20X/213 NP8-20X/214	Color		2 2 2 2	} - -
	Metal NP8-20X/211 NP8-20X/212 NP8-20X/213 NP8-20X/214 NP8-20X/215	Color		2 2 2 2 2 2	} - - -
	Metal NP8-20X/211 NP8-20X/212 NP8-20X/213 NP8-20X/214 NP8-20X/215 NP8-20X/216			2 2 2 2 2 2	
	Metal NP8-20X/211 NP8-20X/212 NP8-20X/213 NP8-20X/214 NP8-20X/215 NP8-20X/216 NP8-02X/211			2 2 2 2 2 -	2
	NP8-01X/226 Metal NP8-20X/211 NP8-20X/212 NP8-20X/213 NP8-20X/214 NP8-20X/215 NP8-20X/216 NP8-02X/211 NP8-02X/211 NP8-02X/212 NP8-02X/213			2 2 2 2 2	2 2 2
	Metal NP8-20X/211 NP8-20X/212 NP8-20X/213 NP8-20X/214 NP8-20X/215 NP8-20X/216 NP8-02X/211 NP8-02X/211			2 2 2 2 2 2 2 	2 2 2 2
	NP8-01X/226 Metal NP8-20X/211 NP8-20X/212 NP8-20X/213 NP8-20X/214 NP8-20X/215 NP8-20X/216 NP8-02X/211 NP8-02X/211 NP8-02X/212 NP8-02X/213 NP8-02X/213			2 2 2 2 2 2 2 - -	2 2 2 2 2 2
	NP8-01X/226 Metal NP8-20X/211 NP8-20X/212 NP8-20X/213 NP8-20X/214 NP8-20X/215 NP8-20X/216 NP8-02X/211 NP8-02X/211 NP8-02X/213 NP8-02X/214 NP8-02X/213			2 2 2 2 2 2 2 	2 2 2 2 2 2 2 2
	NP8-01X/226 Metal NP8-20X/211 NP8-20X/212 NP8-20X/213 NP8-20X/214 NP8-20X/215 NP8-20X/216 NP8-02X/211 NP8-02X/211 NP8-02X/211 NP8-02X/214 NP8-02X/215 NP8-02X/215 NP8-02X/216			2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2
	NP8-01X/226 Metal NP8-20X/211 NP8-20X/212 NP8-20X/213 NP8-20X/214 NP8-20X/215 NP8-20X/216 NP8-02X/211 NP8-02X/211 NP8-02X/213 NP8-02X/214 NP8-02X/215 NP8-02X/216 NP8-02X/216 NP8-10X/216 NP8-11X/211			2 2 2 2 2 2 2 2 2 2 1	2 2 2 2 2 2 1 1
NP8-	NP8-01X/226 Metal NP8-20X/211 NP8-20X/212 NP8-20X/213 NP8-20X/214 NP8-20X/215 NP8-20X/216 NP8-02X/211 NP8-02X/211 NP8-02X/213 NP8-02X/214 NP8-02X/215 NP8-02X/216 NP8-11X/211 NP8-11X/212			2 2 2 2 2 2 2 2 1 1	2 2 2 2 2 2 1 1 1 1
	NP8-01X/226 Metal NP8-20X/211 NP8-20X/212 NP8-20X/213 NP8-20X/214 NP8-20X/215 NP8-20X/216 NP8-02X/211 NP8-02X/211 NP8-02X/211 NP8-02X/214 NP8-02X/215 NP8-02X/216 NP8-11X/211 NP8-11X/211 NP8-11X/213			2 2 2 2 2 2 2 2 1 1	2 2 2 2 2 2 2

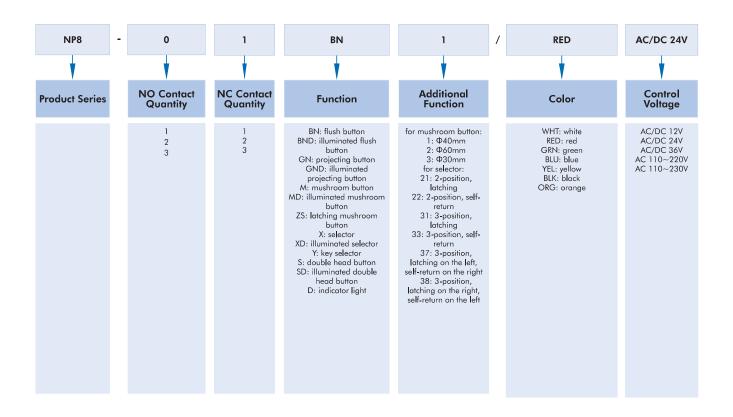
Dimension(mm)



NP8- □□ X22/ □	Metal	Color	Selector Switches	ł	ł
	NP8-20X/221			2	-
	NP8-20X/222			2	-
	NP8-20X/223			2	-
	NP8-20X/224			2	-
	NP8-20X/225			2	-
	NP8-20X/226			2	-
	NP8-02X/221			, -	2
	NP8-02X/222			-	2
	NP8-02X/223			-	2
I	NP8-02X/224			-	2
NP8 @	NP8-02X/225			-	2
00-3 GB/T 14045.5 1-4-29CLG ¥2	NP8-02X/226			-	2
	NP8-11X/221			1	1
	NP8-11X/222			1	1
	NP8-11X/223			1	1
	NP8-11X/224			1	1
	NP8-11X/225			1	1
	NP8-11X/226			1	1

★ Selector Switches (3 positions)-(Non-illuminated)

NP8- □□ X /31 □	Metal	Color	Selector Switches	ł	ł
	NP8-20X/311			2	-
	NP8-20X/312			2	-
	NP8-20X/313			2	-
	NP8-20X/314			2	-
	NP8-20X/315			2	-
	NP8-20X/316			2	-
	NP8-02X/311			-	2
	NP8-02X/312			-	2
1000	NP8-02X/313			-	2
	NP8-02X/314			-	2
CHNT W	NP8-02X/315			· -	2
AC 15 ATOM AN ADMINISTRATION OF THE PROPERTY AND A COUNTY OF THE PROPERTY AND A COUNTY AND A COUNTY ADMINISTRATION OF THE PROPERTY AND A COUNTY AND	NP8-02X/316			-	2
17	NP8-11X/311			1	1
	NP8-11X/312			1	1
	NP8-11X/313			1	1
	NP8-11X/314			1	1
	NP8-11X/315			1	1
	NP8-11X/316			1	1



Туре	Color or Function	Contact	Model Description	Code
Illuminated mushroom button	Red, 🛮 40mm, AC/DC 24V LED	1 NO	NP8-10MD/1 RED AC/DC 24V	667273
Illuminated mushroom button	Green, □40mm, AC 110V-220V LED	1 NO	NP8-10MD/1 GRN AC 110V-220V	667282
Illuminated mushroom button	Green, □40mm, AC 110V-230V LED	1 NO	NP8-10MD/1 GRN AC 110V-230V	667595
Illuminated mushroom button	Green, □40mm, AC/DC 24V LED	1 NO	NP8-10MD/1 GRN AC/DC 24V	667272
Selector	White, 2-position, latching	1 NO	NP8-10X/21 WHT	578660
Selector	Red, 2-position, latching	1 NO	NP8-10X/21 RED	667221
Selector	Green, 2-position, latching	1 NO	NP8-10X/21 GRN	667220
Selector	Blue, 2-position, latching	1 NO	NP8-10X/21 BLU	578659
Selector	Yellow, 2-position, latching	1 NO	NP8-10X/21 YEL	578658
Selector	Black, 2-position, latching	1 NO	NP8-10X/21 BLK	578661
Selector	White, 2-position, self-return	1 NO	NP8-10X/22 WHT	578775
Selector	Red, 2-position, self-return	1 NO	NP8-10X/22 RED	578741
Selector	Green, 2-position, self-return	1 NO	NP8-10X/22 GRN	578740
Selector	Blue, 2-position, self-return	1 NO	NP8-10X/22 BLU	578778
Selector	Yellow, 2-position, self-return	1 NO	NP8-10X/22 YEL	578777
Selector	Black, 2-position, self-return	1 NO	NP8-10X/22 BLK	578776
Illuminated selector	White, 2-position, latching, AC 110V-220V LED	1 NO	NP8-10XD/21 WHT AC 110V-220V	667330
Illuminated selector	White, 2-position, latching, AC 110V-230V LED	1 NO	NP8-10XD/21 WHT AC 110V-230V	667617
Illuminated selector	White, 2-position, latching, AC/DC 24V LED	1 NO	NP8-10XD/21 WHT AC/DC 24V	578667
Illuminated selector	Red, 2-position, latching, AC 110V-220V LED	1 NO	NP8-10XD/21 RED AC 110V-220V	667201
Illuminated selector	Red, 2-position, latching, AC 110V-230V LED	1 NO	NP8-10XD/21 RED AC 110V-230V	667570
Illuminated selector	Red, 2-position, latching, AC/DC 12V LED	1 NO	NP8-10XD/21 RED AC/DC 12V	667876
Illuminated selector	Red, 2-position, latching, AC/DC 24V LED	1 NO	NP8-10XD/21 RED AC/DC 24V	667189
Illuminated selector	Green, 2-position, latching, AC 110V-220V LED	1 NO	NP8-10XD/21 GRN AC 110V-220V	667200
Illuminated selector	Green, 2-position, latching, AC 110V-230V LED	1 NO	NP8-10XD/21 GRN AC 110V-230V	667569
Illuminated selector	Green, 2-position, latching, AC/DC 12V LED	1 NO	NP8-10XD/21 GRN AC/DC 12V	256842
Illuminated selector	Green, 2-position, latching, AC/DC 24V LED	1 NO	NP8-10XD/21 GRN AC/DC 24V	667188
Illuminated selector	Blue, 2-position, latching, AC 110V-220V LED	1 NO	NP8-10XD/21 BLU AC 110V-220V	578640
Illuminated selector	Blue, 2-position, latching, AC 110V-230V LED	1 NO	NP8-10XD/21 BLU AC 110V-230V	667638
Illuminated selector	Blue, 2-position, latching, AC/DC 24V LED	1 NO	NP8-10XD/21 BLU AC/DC 24V	578666
Illuminated selector	Yellow, 2-position, latching, AC 110V-220V LED	1 NO	NP8-10XD/21 YEL AC 110V-220V	578639
Illuminated selector	Yellow, 2-position, latching, AC 110V-230V LED	1 NO	NP8-10XD/21 YEL AC 110V-230V	667637
Illuminated selector	Yellow, 2-position, latching, AC/DC 24V LED	1 NO	NP8-10XD/21 YEL AC/DC 24V	578665
Illuminated selector	Orange, 2-position, self-return, AC/DC 24V LED	1 NO	NP8-10XD/22 ORG AC/DC 24V	578801
Illuminated selector	Orange, 2-position, self-return, AC 110V-220V LED	1 NO	NP8-10XD/22 ORG AC 110V-220V	578805
Illuminated selector	White, 2-position, self-return, AC/DC 24V LED	1 NO	NP8-10XD/22 WHT AC/DC 24V	578798
Illuminated selector	White, 2-position, self-return, AC 110V-220V LED	1 NO	NP8-10XD/22 WHT AC 110V-220V	578802
Illuminated selector	White, 2-position, self-return, AC 110V-230V LED	1 NO	NP8-10XD/22 WHT AC110V-230V	667677
Illuminated selector	Red, 2-position, self-return, AC/DC 24V LED	1 NO	NP8-10XD/22 RED AC/DC 24V	578685
Illuminated selector	Red, 2-position, self-return, AC 110V-220V LED	1 NO	NP8-10XD/22 RED AC 110V-220V	578713
Illuminated selector	Red, 2-position, self-return, AC 110V-230V LED	1 NO	NP8-10XD/22 RED AC110V-230V	667649
Illuminated selector	Green, 2-position, self-return, AC/DC 24V LED	1 NO	NP8-10XD/22 GRN AC/DC 24V	578684
Illuminated selector	Green, 2-position, self-return, AC 110V-220V LED	1 NO	NP8-10XD/22 GRN AC 110V-220V	578712
Illuminated selector	Green, 2-position, self-return, AC 110V-230V LED	1 NO	NP8-10XD/22 GRN AC110V-230V	667648