

# **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  $-5^{\circ}$ 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:

1×10<sup>5</sup> operation circles.

Electric life:

Flush, mushroom-headed and illuminated version:

AC 1×10<sup>6</sup> / DC 2.5×10<sup>5</sup> operation circles.

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

1×10<sup>5</sup> 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.









# ★ Selector Switches (3 positions) -(Illuminated) AC/DC6V, 12V, 24V, 36V, AC110V~230V

NP8-20XD/311	NP8- □□ XD /31 □	Metal	Color	Selector Switches	{	ł
NP8-20XD/314		NP8-20XD/311	0		2	_
NP8-20XD/315		NP8-20XD/313			2	_
NP8-02XD/316   NP8-02XD/311   NP8-02XD/313   NP8-02XD/313   NP8-02XD/315   NP8-02XD/315   NP8-1XD/311   NP8-1XD/315   NP8-1XD/315   NP8-1XD/315   NP8-1XD/315   NP8-1XD/315   NP8-1XD/315   NP8-1XD/315   NP8-1XD/315   NP8-1XD/315   NP8-1XD/331   NP8-1XD/331   NP8-20XD/333   NP8-20XD/333   NP8-20XD/335   NP8-20XD/335   NP8-20XD/335   NP8-02XD/335   NP8-02XD/335   NP8-02XD/335   NP8-02XD/335   NP8-1XD/335   NP8-1XD/335   NP8-1XD/335   NP8-1XD/335   NP8-1XD/335   NP8-1XD/335   NP8-1XD/336   NP8-1XD/336   NP8-1XD/336   NP8-1XD/337   NP8-1XD/336   NP8-1XD/337   NP8-1XD/337   NP8-1XD/337   NP8-20XD/373   NP8-20XD/373   NP8-20XD/373   NP8-20XD/373   NP8-20XD/374   NP8-20XD/374   NP8-20XD/375   NP8-20XD/375   NP8-20XD/375   NP8-20XD/376   NP8-20XD/376   NP8-20XD/376   NP8-1XD/377   NP8-1XD/378   NP8-20XD/388   NP8-20X		NP8-20XD/314			2	_
NP8-02XD/311		NP8-20XD/315			2	_
NP8-02XD/313		NP8-20XD/316			2	_
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NP8-11XD/316		NP8-11XD/314			1	1
NP8-□		NP8-11XD/315			1	1
NP8-20XD/331		NP8-11XD/316			1	1
NP8-20XD/333		Metal	Color		\ \	ł
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NP8-11XD/376         1         1           NP8-□□ XD/38 □         Metal         Color Selector Switches         1         1           NP8-20XD/381         □         2         □           NP8-20XD/383         □         2         □           NP8-20XD/384         □         2         □           NP8-20XD/385         □         2         □           NP8-20XD/386         □         2         □           NP8-02XD/381         □         2         □           NP8-02XD/383         □         2         □           □         2         □         2		NP8-11XD/336  Metal  NP8-20XD/371  NP8-20XD/373  NP8-20XD/374  NP8-20XD/375  NP8-20XD/376  NP8-02XD/371  NP8-02XD/373  NP8-02XD/374  NP8-02XD/375  NP8-02XD/375  NP8-02XD/376  NP8-11XD/371  NP8-11XD/373	Color		2 2 2 2 2 2 	1
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NP8-20XD/383	XD/37	NP8-11XD/336  Metal  NP8-20XD/371  NP8-20XD/373  NP8-20XD/374  NP8-20XD/375  NP8-20XD/376  NP8-02XD/371  NP8-02XD/373  NP8-02XD/374  NP8-02XD/375  NP8-02XD/375  NP8-11XD/371  NP8-11XD/373  NP8-11XD/374  NP8-11XD/375	Color	Switches	1 2 2 2 2 2 2 2	1
NP8-20XD/384	XD/37 □	NP8-11XD/336  Metal  NP8-20XD/371  NP8-20XD/373  NP8-20XD/374  NP8-20XD/375  NP8-20XD/376  NP8-02XD/371  NP8-02XD/373  NP8-02XD/374  NP8-02XD/375  NP8-02XD/375  NP8-02XD/375  NP8-11XD/371  NP8-11XD/373  NP8-11XD/373  NP8-11XD/375  NP8-11XD/376  Metal		Switches	1 2 2 2 2 2 2	1
NP8-20XD/385  NP8-20XD/386  2  NP8-02XD/381  NP8-02XD/383  NP8-02XD/383	XD/37 □	NP8-11XD/336  Metal  NP8-20XD/371  NP8-20XD/373  NP8-20XD/374  NP8-20XD/375  NP8-20XD/376  NP8-02XD/371  NP8-02XD/373  NP8-02XD/374  NP8-02XD/375  NP8-02XD/376  NP8-11XD/371  NP8-11XD/373  NP8-11XD/373  NP8-11XD/376  Metal  NP8-20XD/381		Switches	1 2 2 2 2 2 2 2	1
NP8-20XD/386	XD/37 □	NP8-11XD/336  Metal  NP8-20XD/371  NP8-20XD/373  NP8-20XD/375  NP8-20XD/376  NP8-02XD/371  NP8-02XD/373  NP8-02XD/374  NP8-02XD/375  NP8-02XD/375  NP8-11XD/375  NP8-11XD/373  NP8-11XD/375  NP8-11XD/376  Metal  NP8-20XD/381  NP8-20XD/383		Switches	1 2 2 2 2 2 2	1
NP8-02XD/381 — 2 NP8-02XD/383 — 2	XD/37 □	NP8-11XD/336  Metal  NP8-20XD/371  NP8-20XD/373  NP8-20XD/375  NP8-20XD/376  NP8-02XD/371  NP8-02XD/373  NP8-02XD/374  NP8-02XD/375  NP8-02XD/375  NP8-02XD/376  NP8-11XD/371  NP8-11XD/373  NP8-11XD/375  NP8-11XD/376  Metal  NP8-20XD/381  NP8-20XD/383  NP8-20XD/384		Switches	1 2 2 2 2 2	1
NP8-02XD/383 2	XD/37 □	NP8-11XD/336  Metal  NP8-20XD/371  NP8-20XD/373  NP8-20XD/375  NP8-20XD/376  NP8-02XD/371  NP8-02XD/373  NP8-02XD/374  NP8-02XD/375  NP8-02XD/375  NP8-02XD/376  NP8-11XD/371  NP8-11XD/373  NP8-11XD/375  NP8-11XD/376  Metal  NP8-20XD/381  NP8-20XD/383  NP8-20XD/384		Switches	1 2 2 2 2 2	1
	XD/37 □	NP8-11XD/336  Metal  NP8-20XD/371  NP8-20XD/373  NP8-20XD/375  NP8-20XD/376  NP8-20XD/376  NP8-02XD/373  NP8-02XD/373  NP8-02XD/375  NP8-02XD/376  NP8-11XD/376  NP8-11XD/371  NP8-11XD/376  Metal  NP8-20XD/381  NP8-20XD/383  NP8-20XD/384  NP8-20XD/385		Switches	1 2 2 2 2	1
NP8-02XD/384	XD/37 □	NP8-11XD/336  Metal  NP8-20XD/371  NP8-20XD/373  NP8-20XD/374  NP8-20XD/375  NP8-20XD/376  NP8-02XD/371  NP8-02XD/373  NP8-02XD/375  NP8-02XD/375  NP8-02XD/376  NP8-11XD/371  NP8-11XD/371  NP8-11XD/373  NP8-11XD/376  Metal  NP8-20XD/381  NP8-20XD/384  NP8-20XD/385  NP8-20XD/386		Switches	1 2 2 2 2	1
	XD/37 □	NP8-11XD/336  Metal  NP8-20XD/371  NP8-20XD/373  NP8-20XD/375  NP8-20XD/376  NP8-20XD/376  NP8-02XD/373  NP8-02XD/373  NP8-02XD/374  NP8-02XD/375  NP8-11XD/371  NP8-11XD/373  NP8-11XD/374  NP8-11XD/375  NP8-11XD/376  Metal  NP8-20XD/381  NP8-20XD/385  NP8-20XD/386  NP8-20XD/386  NP8-20XD/386  NP8-20XD/381		Switches	1 2 2 2 2	1

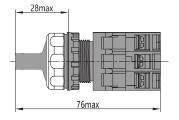
N	P8-02XD/385				_	2
N	P8-02XD/386				_	2
N	P8-11XD/381	0			1	1
Ν	P8-11XD/383			. ,	1	1
Ν	P8-11XD/384				1	1
Ν	P8-11XD/385		١		1	1
N	P8-11XD/386				1	1

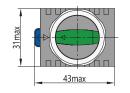
# ★ Key Switches (2 positions)-(Non-illuminated)

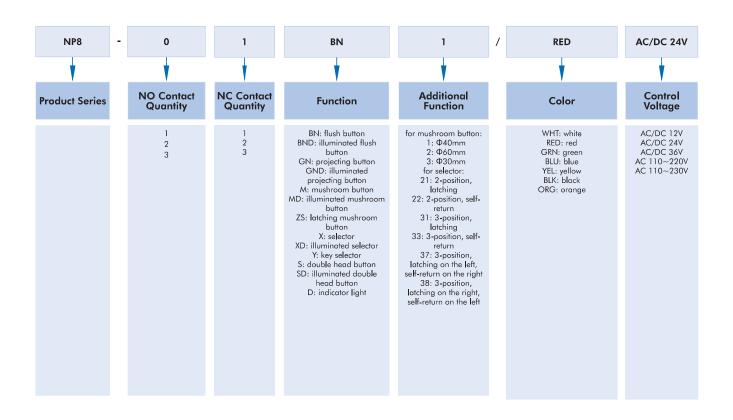
NP8 □□ Y /21	Metal	Key Switches	}	ł
	NP8-10Y/21	R A	1	_
CAN'T B	NP8-01Y/21		_	1
NP8- □□ Y/22	Metal	Key Switches	{	ł
	NP8-10Y/22		1	_
CAN TO	NP8-01Y/22		_	1
NP8 □□ Y /21	Metal	Key Switches	}	ł
	NP8-20Y/21		2	_
	NP8-02Y/21	R A	_	2
ONT - AT -	NP8-11Y/21		1	1
NP8- □□ Y/22	Metal	Key Switches	}	ł
	NP8-20Y/22		2	_
	NP8-02Y/22		_	2
(Comments)	NP8-11Y/22		1	1

Dimensions(mm)

NP8- □□ XD/ □







Туре	Color or Function	Contact	Model Description	Code
Illuminated selector	Red, 2-position, latching, AC 110V-220V LED	2 NO	NP8-20XD/21 RED AC 110V-220V	667205
Illuminated selector	Red, 2-position, latching, AC 110V-230V LED	2 NO	NP8-20XD/21 RED AC 110V-230V	667574
Illuminated selector	Red, 2-position, latching, AC/DC 24V LED	2 NO	NP8-20XD/21 RED AC/DC 24V	667193
Illuminated selector	Green, 2-position, latching, AC 110V-220V LED	2 NO	NP8-20XD/21 GRN AC 110V-220V	667204
Illuminated selector	Green, 2-position, latching, AC 110V-230V LED	2 NO	NP8-20XD/21 GRN AC 110V-230V	667573
Illuminated selector	Green, 2-position, latching, AC/DC 24V LED	2 NO	NP8-20XD/21 GRN AC/DC 24V	667192
Illuminated selector	Green, 2-position, latching, AC/DC 36V LED	2 NO	NP8-20XD/21 GRN AC/DC 36V	578955
Illuminated selector	Orange, 2-position, self-return, AC/DC 24V LED	2 NO	NP8-20XD/22 ORG AC/DC 24V	578825
Illuminated selector	Orange, 2-position, self-return, AC 110V-220V LED	2 NO	NP8-20XD/22 ORG AC 110V-220V	578829
Illuminated selector	White, 2-position, self-return, AC/DC 24V LED	2 NO	NP8-20XD/22 WHT AC/DC 24V	578822
Illuminated selector	White, 2-position, self-return, AC 110V-220V LED	2 NO	NP8-20XD/22 WHT AC 110V-220V	578826
Illuminated selector	White, 2-position, self-return, AC 110V-230V LED	2 NO	NP8-20XD/22 WHT AC110V-230V	667686
Illuminated selector	Red, 2-position, self-return, AC/DC 24V LED	2 NO	NP8-20XD/22 RED AC/DC 24V	578691
Illuminated selector	Red, 2-position, self-return, AC 110V-220V LED	2 NO	NP8-20XD/22 RED AC 110V-220V	578719
Illuminated selector	Red, 2-position, self-return, AC 110V-230V LED	2 NO	NP8-20XD/22 RED AC110V-230V	667655
Illuminated selector	Green, 2-position, self-return, AC/DC 24V LED	2 NO	NP8-20XD/22 GRN AC/DC 24V	578690
Illuminated selector	Green, 2-position, self-return, AC 110V-220V LED	2 NO	NP8-20XD/22 GRN AC 110V-220V	578718
Illuminated selector	Green, 2-position, self-return, AC 110V-230V LED	2 NO	NP8-20XD/22 GRN AC110V-230V	667654
Illuminated selector	Blue, 2-position, self-return, AC/DC 24V LED	2 NO	NP8-20XD/22 BLU AC/DC 24V	578824
Illuminated selector	Blue, 2-position, self-return, AC 110V-220V LED	2 NO	NP8-20XD/22 BLU AC 110V-220V	578828
Illuminated selector	Blue, 2-position, self-return, AC 110V-230V LED	2 NO	NP8-20XD/22 BLU AC110V-230V	667688
Illuminated selector	Yellow, 2-position, self-return, AC/DC 24V LED	2 NO	NP8-20XD/22 YEL AC/DC 24V	578823
Illuminated selector	Yellow, 2-position, self-return, AC 110V-220V LED	2 NO	NP8-20XD/22 YEL AC 110V-220V	578827
Illuminated selector	Yellow, 2-position, self-return, AC 110V-230V LED	2 NO	NP8-20XD/22 YEL AC110V-230V	667687
Illuminated selector	Orange, 3-position, latching, AC 110V-220V LED	2 NO	NP8-20XD/31 ORG AC 110V-220V	667325
Illuminated selector	Orange, 3-position, latching, AC/DC 24V LED	2 NO	NP8-20XD/31 ORG AC/DC 24V	667329
Illuminated selector	White, 3-position, latching, AC 110V-220V LED	2 NO	NP8-20XD/31 WHT AC 110V-220V	667322
Illuminated selector	White, 3-position, latching, AC 110V-230V LED	2 NO	NP8-20XD/31 WHT AC 110V-230V	667614
Illuminated selector	White, 3-position, latching, AC/DC 24V LED	2 NO	NP8-20XD/31 WHT AC/DC 24V	667326
Illuminated selector	Red, 3-position, latching, AC 110V-220V LED	2 NO	NP8-20XD/31 RED AC 110V-220V	667209
Illuminated selector	Red, 3-position, latching, AC 110V-230V LED	2 NO	NP8-20XD/31 RED AC 110V-230V	667578
Illuminated selector	Red, 3-position, latching, AC/DC 24V LED	2 NO	NP8-20XD/31 RED AC/DC 24V	667197
Illuminated selector	Green, 3-position, latching, AC 110V-220V LED	2 NO	NP8-20XD/31 GRN AC 110V-220V	667208
Illuminated selector	Green, 3-position, latching, AC 110V-230V LED	2 NO	NP8-20XD/31 GRN AC 110V-230V	667577
Illuminated selector	Green, 3-position, latching, AC/DC 24V LED	2 NO	NP8-20XD/31 GRN AC/DC 24V	667196
Illuminated selector	Green, 3-position, latching, AC/DC 36V LED	2 NO	NP8-20XD/31 GRN AC/DC 36V	578963
Illuminated selector	Blue, 3-position, latching, AC 110V-220V LED	2 NO	NP8-20XD/31 BLU AC 110V-220V	667324
Illuminated selector	Blue, 3-position, latching, AC 110V-230V LED	2 NO	NP8-20XD/31 BLU AC 110V-230V	667616
Illuminated selector	Blue, 3-position, latching, AC/DC 24V LED	2 NO	NP8-20XD/31 BLU AC/DC 24V	667328
Illuminated selector	Yellow, 3-position, latching, AC 110V-220V LED	2 NO	NP8-20XD/31 YEL AC 110V-220V	667323
Illuminated selector	Yellow, 3-position, latching, AC 110V-230V LED	2 NO	NP8-20XD/31 YEL AC 110V-230V	667615
Illuminated selector	Yellow, 3-position, latching, AC/DC 24V LED	2 NO	NP8-20XD/31 YEL AC/DC 24V	667327
Illuminated selector	Orange, 3-position, self-return, AC/DC 24V LED	2 NO	NP8-20XD/33 ORG AC/DC 24V	578917
Illuminated selector	Orange, 3-position, self-return, AC 110V-220V LED	2 NO	NP8-20XD/33 ORG AC 110V-220V	578929