

# **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

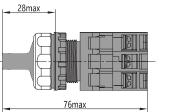
NP8- □□ XD /31 □	Metal	Color	Selector Switches	{	ł
	NP8-20XD/311			2	
	NP8-20XD/313			2	_
	NP8-20XD/314			2	_
	NP8-20XD/315			2	_
	NP8-20XD/316			2	_
	NP8-02XD/311	0		_	2
	NP8-02XD/313			_	2
	NP8-02XD/314			_	2
CHNT ®	NP8-02XD/315		\   /	_	2
Constitution and the constitution of the const	NP8-02XD/316				2
	NP8-11XD/311			1	1
	NP8-11XD/313			1	1
	NP8-11XD/314			1	1
	NP8-11XD/315			1	1
	NP8-11XD/316			1	1
NP8- □□ XD/33 □	Metal	Color	Selector Switches	}	ł
	NP8-20XD/331	0		2	_
	NP8-20XD/333			2	
	NP8-20XD/334			2	
	NP8-20XD/335			2	_
	NP8-20XD/336			2	_
	NP8-02XD/331	0			2
	NP8-02XD/333				2
<b>6 6 </b>	NP8-02XD/334				2
CHNT (S)	NP8-02XD/335			_	2
IA A2 Optic Avenue a Notes about a consequence	NP8-02XD/336			_	2
	NP8-11XD/331			1	1
	NP8-11XD/333			1	1
	NP8-11XD/334			1	1
	NP8-11XD/334 NP8-11XD/335			1	1
NP8-	NP8-11XD/335	Color	Selector Switches	1	1
	NP8-11XD/335 NP8-11XD/336	Color		1	1
	NP8-11XD/335 NP8-11XD/336 <b>Metal</b>	Color		1	1
	NP8-11XD/335 NP8-11XD/336 <b>Metal</b> NP8-20XD/371	Color		1 1 1 2	1
	NP8-11XD/335 NP8-11XD/336 <b>Metal</b> NP8-20XD/371 NP8-20XD/373	Color		1 1 2 2 2	1
	NP8-11XD/335 NP8-11XD/336 <b>Metal</b> NP8-20XD/371 NP8-20XD/373 NP8-20XD/374	Color		1 1 2 2 2 2	1
	NP8-11XD/335 NP8-11XD/336 <b>Metal</b> NP8-20XD/371 NP8-20XD/373 NP8-20XD/374 NP8-20XD/375	Color		1 1 2 2 2 2 2	1
	NP8-11XD/335 NP8-11XD/336 <b>Metal</b> NP8-20XD/371 NP8-20XD/373 NP8-20XD/374 NP8-20XD/375 NP8-20XD/376	Color		1 1 2 2 2 2 2 2	1 1 - - -
	NP8-11XD/335 NP8-11XD/336 <b>Metal</b> NP8-20XD/371 NP8-20XD/373 NP8-20XD/374 NP8-20XD/375 NP8-20XD/376 NP8-0XD/371	Color		1 1 2 2 2 2 2 2	1 1 + - - - - 2
	NP8-11XD/335 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	Color		1 1 2 2 2 2 2 2	1 1 
	NP8-11XD/335 NP8-11XD/336 Metal NP8-20XD/371 NP8-20XD/373 NP8-20XD/374 NP8-20XD/375 NP8-20XD/376 NP8-02XD/373 NP8-02XD/373 NP8-02XD/374	Color		1 1 2 2 2 2 2 2	1 1 
	NP8-11XD/335 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	Color		1 1 2 2 2 2 2 2 2 	1 1 
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	NP8-11XD/335 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 NP8-02XD/376 NP8-11XD/371	Color		1 1 2 2 2 2 2 2 	1 1 1 
	NP8-11XD/335 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	Color		1 1 2 2 2 2 2 2 	1 1 1 
	NP8-11XD/335 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/371 NP8-11XD/373 NP8-11XD/373 NP8-11XD/374	Color		1 1 2 2 2 2 2 2 	1 1 1 
	NP8-11XD/335 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		1 1 2 2 2 2 2 2 	1 1 1 
XD/37 □	NP8-11XD/335 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/376 NP8-11XD/371 NP8-11XD/373 NP8-11XD/374 NP8-11XD/375 NP8-11XD/376		Switches	1 1 2 2 2 2 2 2 2 	1 1 1 
XD/37 □	NP8-11XD/335 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/375 NP8-11XD/371 NP8-11XD/373 NP8-11XD/374 NP8-11XD/375 NP8-11XD/376  Metal  NP8-20XD/381		Switches	1 1 2 2 2 2 2 2 	1 1 1 
XD/37 □	NP8-11XD/335 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/371 NP8-11XD/373 NP8-11XD/373 NP8-11XD/375 NP8-11XD/376 Metal  NP8-20XD/381 NP8-20XD/383		Switches	1 1 2 2 2 2 2 2 	1 1 1 
XD/37 □	NP8-11XD/335 NP8-11XD/336  Metal NP8-20XD/371 NP8-20XD/373 NP8-20XD/374 NP8-20XD/375 NP8-20XD/376 NP8-02XD/377 NP8-02XD/377 NP8-02XD/375 NP8-02XD/376 NP8-02XD/377 NP8-02XD/376 NP8-11XD/377 NP8-11XD/377 NP8-11XD/377 NP8-11XD/376 Metal NP8-20XD/381 NP8-20XD/383 NP8-20XD/384		Switches	1 1 2 2 2 2 2 2 	1 1 1 
XD/37 □	NP8-11XD/335 NP8-11XD/336 Metal NP8-20XD/371 NP8-20XD/373 NP8-20XD/374 NP8-20XD/375 NP8-20XD/376 NP8-02XD/373 NP8-02XD/374 NP8-02XD/375 NP8-02XD/376 NP8-11XD/376 NP8-11XD/371 NP8-11XD/377 NP8-11XD/376 Metal NP8-20XD/381 NP8-20XD/383 NP8-20XD/384 NP8-20XD/385		Switches	1 1 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2 2	1 1 1 
XD/37 □	NP8-11XD/335 NP8-11XD/336  Metal NP8-20XD/371 NP8-20XD/373 NP8-20XD/375 NP8-20XD/376 NP8-02XD/373 NP8-02XD/373 NP8-02XD/376 NP8-02XD/376 NP8-11XD/376 NP8-11XD/371 NP8-11XD/373 NP8-11XD/376 NP8-11XD/376 Metal NP8-20XD/381 NP8-20XD/384 NP8-20XD/385 NP8-20XD/386		Switches	1 1 2 2 2 2 2 2 	1 1 1
XD/37 □	NP8-11XD/335 NP8-11XD/336  Metal NP8-20XD/371 NP8-20XD/373 NP8-20XD/375 NP8-20XD/376 NP8-02XD/373 NP8-02XD/373 NP8-02XD/375 NP8-02XD/375 NP8-02XD/375 NP8-11XD/371 NP8-11XD/371 NP8-11XD/373 NP8-11XD/375 NP8-11XD/376 Metal NP8-20XD/381 NP8-20XD/383 NP8-20XD/385 NP8-20XD/386 NP8-20XD/386 NP8-20XD/386 NP8-20XD/386		Switches	1 1 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2 2	1 1 1
XD/37 □	NP8-11XD/335 NP8-11XD/336  Metal NP8-20XD/371 NP8-20XD/373 NP8-20XD/375 NP8-20XD/376 NP8-02XD/373 NP8-02XD/373 NP8-02XD/376 NP8-02XD/376 NP8-11XD/376 NP8-11XD/371 NP8-11XD/373 NP8-11XD/376 NP8-11XD/376 Metal NP8-20XD/381 NP8-20XD/384 NP8-20XD/385 NP8-20XD/386		Switches	1 1 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2 2	1 1 1

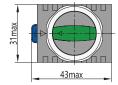
NI	P8-02XD/385			_	2
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NI	P8-11XD/383		,	1	1
NI	P8-11XD/384			1	1
NI	P8-11XD/385			1	1
NI	P8-11XD/386			1	1

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

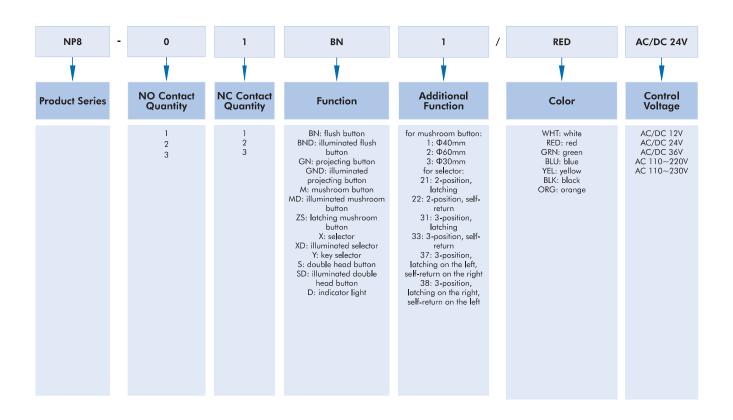
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NP8 □□ Y /21	Metal	Key Switches	ł	ł
	NP8-20Y/21		2	_
I art	NP8-02Y/21		_	2
	NP8-11Y/21		1	1
NP8- □□ Y/22	Metal	Key Switches	1	ł
	NP8-20Y/22		2	_
our ;	NP8-02Y/22		_	2
Comment	NP8-11Y/22		1	1







NP8- □□ XD/ □



Туре	Color or Function	Contact	Model Description	Code
lluminated selector	Blue, 2-position, self-return, AC/DC 24V LED	1 NO	NP8-10XD/22 BLU AC/DC 24V	578800
lluminated selector	Blue, 2-position, self-return, AC 110V-220V LED	1 NO	NP8-10XD/22 BLU AC 110V-220V	578804
lluminated selector	Blue, 2-position, self-return, AC 110V-230V LED	1 NO	NP8-10XD/22 BLU AC110V-230V	667679
lluminated selector	Yellow, 2-position, self-return, AC/DC 24V LED	1 NO	NP8-10XD/22 YEL AC/DC 24V	578799
lluminated selector	Yellow, 2-position, self-return, AC 110V-220V LED	1 NO	NP8-10XD/22 YEL AC 110V-220V	578803
lluminated selector	Yellow, 2-position, self-return, AC 110V-230V LED	1 NO	NP8-10XD/22 YEL AC110V-230V	667678
Key selector	2-position, latching	1 NO	NP8-10Y/21	578130
Key selector	2-position, self-return	1 NO	NP8-10Y/22	578669
Mushroom button	Red, Φ40mm, latching, turn release	1 NO	NP8-10ZS/1 RED	667212
Mushroom button	Red, Φ60mm, latching, turn release	1 NO	NP8-10ZS/2 RED	667213
Mushroom button	Red, Φ30mm, latching, turn release	1 NO	NP8-10ZS/3 RED	667850
lush button	White	1 NO+1NC	NP8-11BN WHT	667111
Flush button	Red	1 NO+1NC	NP8-11BN RED	667114
Flush button	Green	1 NO+1NC	NP8-11BN GRN	667113
Flush button	Blue	1 NO+1NC	NP8-11BN BLU	667116
Flush button	Yellow	1 NO+1NC	NP8-11BN YEL	667115
Flush button	Black	1 NO+1NC	NP8-11BN BLK	667112
lluminated flush button	Orange, AC 110V-220V LED	1 NO+1NC	NP8-11BND ORG AC 110V-220V	667128
lluminated flush button	Orange, AC/DC 24V LED	1 NO+1NC	NP8-11BND ORG AC/DC 24V	667122
lluminated flush button	White, AC 110V-220V LED	1 NO+1NC	NP8-11BND WHT AC 110V-220V	667127
lluminated flush button	White, AC 110V-230V LED	1 NO+1NC	NP8-11BND WHT AC 110V-230V	667551
lluminated flush button	White, AC/DC 24V LED	1 NO+1NC	NP8-11BND WHT AC/DC 24V	667117
lluminated flush button	White, AC/DC 36V LED	1 NO+1NC	NP8-11BND WHT AC/DC 36V	578947
lluminated flush button	Red, AC 110V-220V LED	1 NO+1NC	NP8-11BND RED AC 110V-220V	667124
lluminated flush button	Red, AC 110V-230V LED	1 NO+1NC	NP8-11BND RED AC 110V-230V	667548
lluminated flush button	Red, AC/DC 24V LED	1 NO+1NC	NP8-11BND RED AC/DC 24V	667119
lluminated flush button	Red, AC/DC 36V LED	1 NO+1NC	NP8-11BND RED AC/DC 36V	578950
lluminated flush button	Green, AC 110V-220V LED	1 NO+1NC	NP8-11BND GRN AC 110V-220V	667123
lluminated flush button	Green, AC 110V-230V LED	1 NO+1NC	NP8-11BND GRN AC 110V-230V	667547
lluminated flush button	Green, AC/DC 24V LED	1 NO+1NC	NP8-11BND GRN AC/DC 24V	667118
lluminated flush button	Green, AC/DC 36V LED	1 NO+1NC	NP8-11BND GRN AC/DC 36V	578948
lluminated flush button	Blue, AC 110V-220V LED	1 NO+1NC	NP8-11BND BLU AC 110V-220V	667126
lluminated flush button	Blue, AC 110V-230V LED	1 NO+1NC	NP8-11BND BLU AC 110V-230V	667550
lluminated flush button	Blue, AC/DC 24V LED	1 NO+1NC	NP8-11BND BLU AC/DC 24V	667121
lluminated flush button	Blue, AC/DC 36V LED	1 NO+1NC	NP8-11BND BLU AC/DC 36V	578951
lluminated flush button	Yellow, AC 110V-220V LED	1 NO+1NC	NP8-11BND YEL AC 110V-220V	667125
lluminated flush button	Yellow, AC 110V-230V LED	1 NO+1NC	NP8-11BND YEL AC 110V-230V	667549
lluminated flush button	Yellow, AC/DC 24V LED	1 NO+1NC	NP8-11BND YEL AC/DC 24V	667120
lluminated flush button	Yellow, AC/DC 36V LED	1 NO+1NC	NP8-11BND YEL AC/DC 36V	578949
Projecting button	Red	1 NO+1NC	NP8-11GN RED	667110
Projecting button	Green	1 NO+1NC	NP8-11GN GRN	667109
Iluminated projecting button	White, AC 110V-220V LED	1 NO+1NC	NP8-11GND WHT AC 110V-220V	667331
Illuminated projecting button	White, AC 110V-230V LED	1 NO+1NC	NP8-11GND WHT AC 110V-230V	667618
Illuminated projecting button	Red, AC 110V-220V LED	1 NO+1NC	NP8-11GND RED AC 110V-220V	667313