NO:2020.09

CHINT ELECTRICS

NP6 Series Pushbutton

User Instruction

Standard:IEC/EN 60947-5-1

⚠ Safety Warning

1. Only professional technicians are allowed for installation and maintenance.
2. Installation in any damp, condensed-phase environment with inflammable and explosive gas is forbidden.
3. When the product is being installed or maintained, the power must be switched off.
4. You are prohibited from touching the conductive part when the product is operating.

1 Use Purpose

NP6 series pushbutton is used in industrial control circuit with frequency of AC 50Hz (or 60Hz), AC operating voltage up to 220V or DC operating voltage up to 220V. It can be used as command element or power switch in numerical control equipment, instruments and apparatus and small control equipment. Pushbutton with indicator is also suitable for applications that need signal light indication.

2 Main Technical Parameters

Table 1 Main technical parameters

Environmental conditions	Ambient temp. (℃)	-5℃~+40℃, average temperature should not exceed +35℃ within 24h
	Hot and humid atmospheric conditions	Relative humidity should not exceed 50% at +40℃; up to 90% at +20℃;
	Altitude	No influence below 2000m
	Pollution class/ installation category	Class 2/Ⅱ
Technical parameters	Rated operating voltage U_e(V)	AC-15: 220/110; DC-13: 220/24
	Rated operating current I_e(mA)	AC-15: 0.5/0.7; DC-13: 0.1/0.7
	Rated insulation voltage U_i(V)	250
	Conventional thermal current I_{th}(A)	3
	Rated impulse withstand voltage U_{imp}(kV)	1.5
	Head protection class	IP40
	Rated operating voltage of button with indicator U_e(V)	See product body for details
	Rated operating current of button with indicator I_e(mA)	See product body for details

3 Installation

1) The peforating diameter of the mounting hole for the button is Φ16, the minimum center to center distance of mounting holes should not be smaller than 25mm, see Figure 1 - Figure 4 for overall dimensions.

Unit： mm

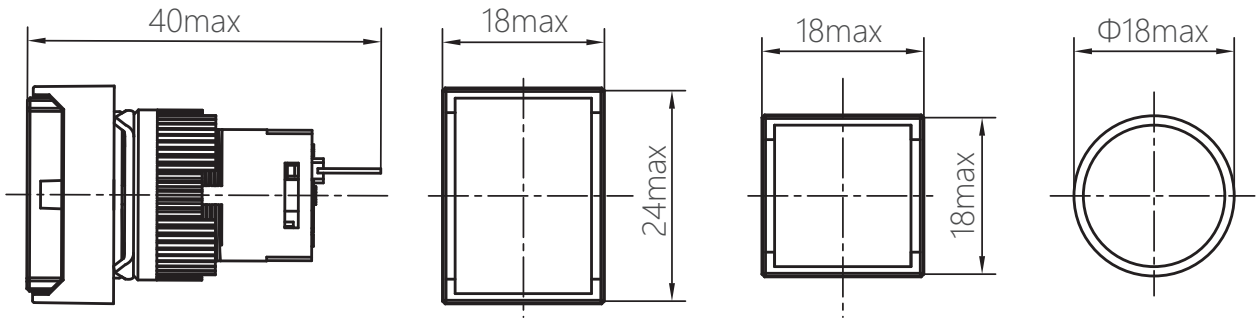

Figure 1 Overall dimensions of NP6-DS, D, BS, B, XD

Unit： mm

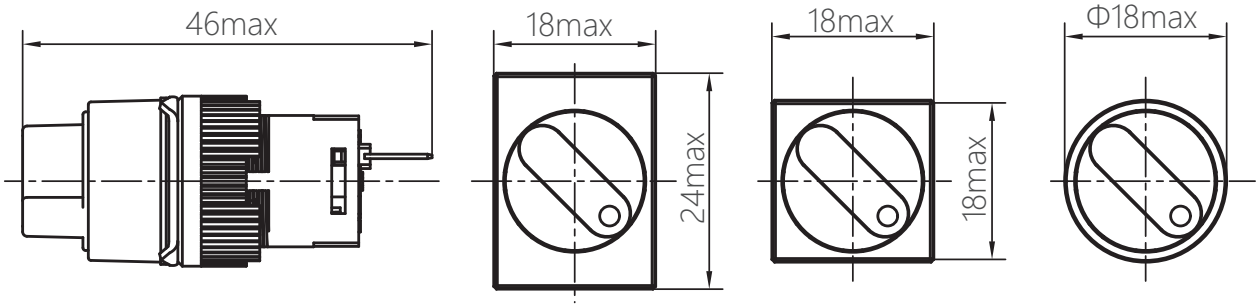

Figure 2 Overall dimensions of NP6-X

Unit： mm

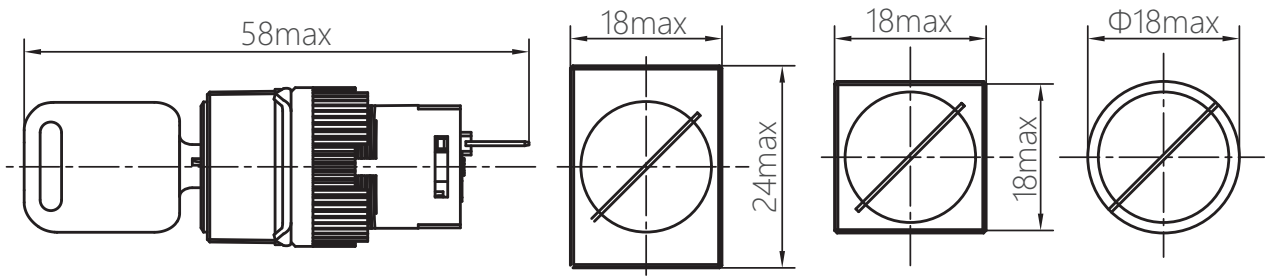

Figure 3 Overall dimensions of NP6-Y

Unit： mm

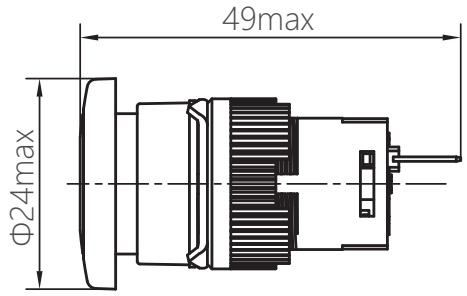

Figure 4
Overall dimensions of NP6-J

Unit： mm

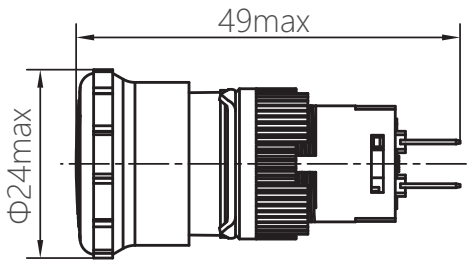

Figure 5
Overall dimensions of NP6-ZS

2) Installation procedure and method

Before using the pushbutton, remove the plastic locking nuts and anti-rotating ring on the pushbutton first, then insert the pushbutton in the front of the panel. Install the anti-rotating ring in the back of the panel. Tighten the plastic locking nuts so that the pushbutton is secured on the panel before welding the power line.

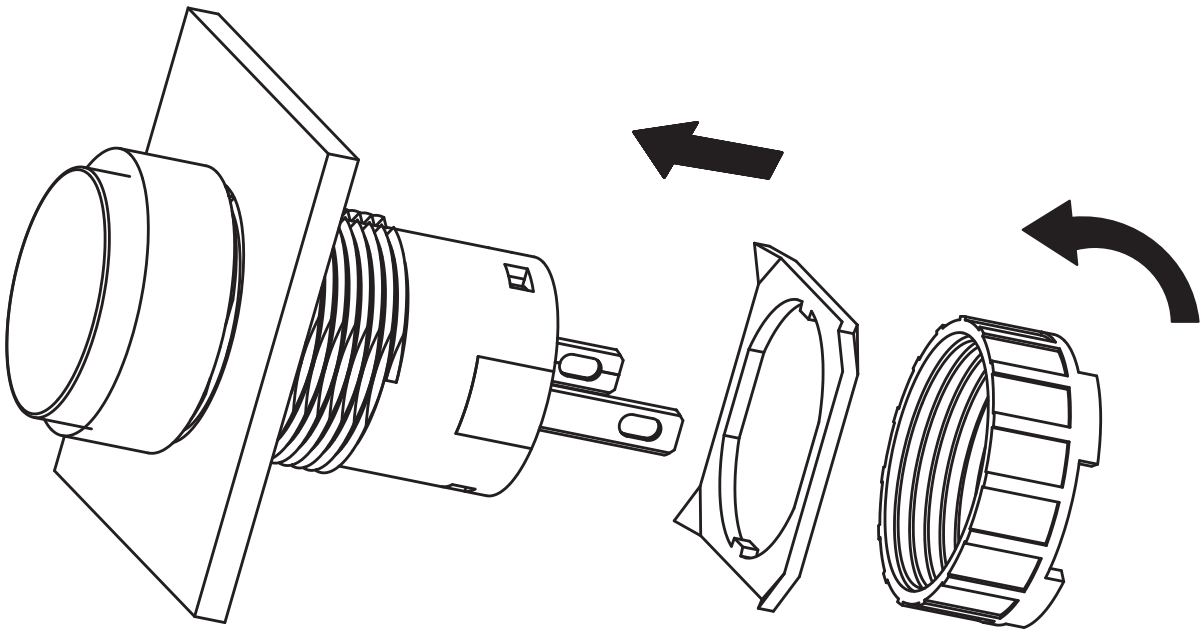

Figure 6 Installation diagram of NP6 pushbutton

4 Maintenance

Tighten the terminals of the button on a regular basis to make sure the wires are connected securely.

Tighten the fixing screws of the pushbutton on a regular basis.

Disconnect the power before regular maintenance to ensure personal safety.

It is recommended to conduct maintenance once a month.

See Table 2 for Analysis and Troubleshooting of Faults.

Table 2 Analysis and Troubleshooting of Faults

Symptons	Cause analysis	Troubleshooting method
Poor contact of the button	Check if the wire is loose or disconnected	The the terminals to see if there is cold joint or missing joint.

5 Environmental Protection

In order to protect the environment, the product or product parts should be disposed of according to the industrial waste treatment process, or be sent to the recycling station for assortment, dismantling and recycling according to local regulations.

CHINT

QC PASS

NP6 Series
Pushbutton
IEC/EN 60947-5-1

Check 34

Test date: Please see the packing

ZHEJIANG CHINT ELECTRICS CO., LTD.

CHINT ELECTRICS

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Pushbutton
User Instruction

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