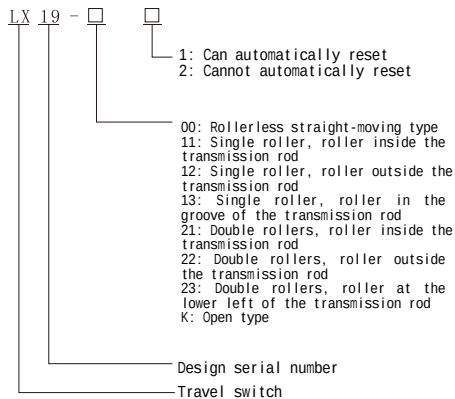


## I. Overview

The LX19 series travel switches are suitable for control circuits with AC 50Hz or 60Hz, voltage up to 380V, and DC voltage up to 220V. They are used for stroke control of motion mechanisms, change of motion direction or speed, automatic control of machine tools, change of motion direction or speed of motion mechanisms, and limit action and control of stroke or procedure. This series of travel switches complies with GB 14048.5 and IEC 60947-5-1 standards.

## II. Model and Meaning



## III. Main Technical Data

Table 1

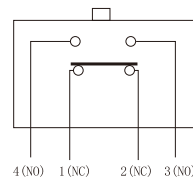
|                              |                                                                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Protection Class             | IP52                                                                                                                                |
| Conventional Heating Current | 5A                                                                                                                                  |
| Rated Voltage                | AC380V DC220V                                                                                                                       |
| Rated Control Current        | AC0.8A DC0.1A                                                                                                                       |
| Operation Frequency          | 20 times per minute                                                                                                                 |
| Mechanical Life              | Over 6 million times                                                                                                                |
| Electrical Life              | $3 \times 10^5$ times                                                                                                               |
| Ambient Temperature          | $-5^{\circ}\text{C} \sim 40^{\circ}\text{C}$                                                                                        |
| Relative Humidity            | $\leq 90\%$ ( $20^{\circ}\text{C}$ )                                                                                                |
| Altitude                     | $\leq 2000\text{m}$                                                                                                                 |
| Withstand Voltage            | Between homologous terminals (1890V)<br>Between terminals and non-live metal parts (2500V)<br>Between live parts and ground (2500V) |
| Application Range            | Control the stroke of motion mechanisms, change their motion direction or speed                                                     |

Table 2

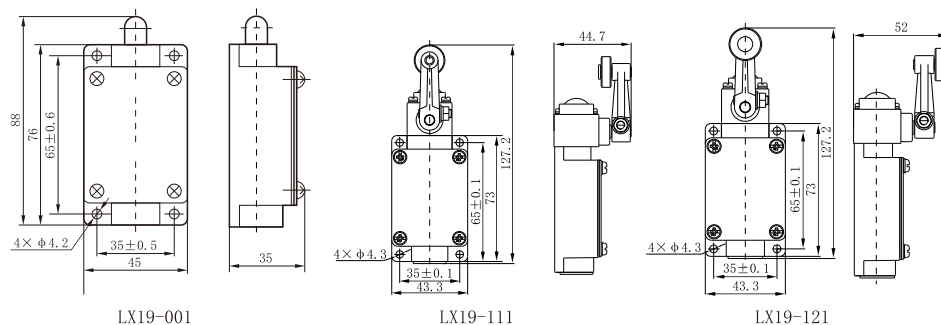
| Model                           | LX19-K | LX19-001 | LX19-111<br>LX19-121<br>LX19-131 | LX19-212<br>LX19-222<br>LX19-232 |
|---------------------------------|--------|----------|----------------------------------|----------------------------------|
| Action Characteristic           |        |          |                                  |                                  |
| Actuating Force (OP) Max (max)  | 10N    | 16N      | 20N                              | 25N                              |
| Actuating Stroke (PT) Max (max) | 3.5mm  | 7mm      | $45^{\circ}$                     | $80^{\circ}$                     |
| Overstroke (OT) Min (min)       | 0.5mm  | 2mm      | $15^{\circ}$                     | -                                |

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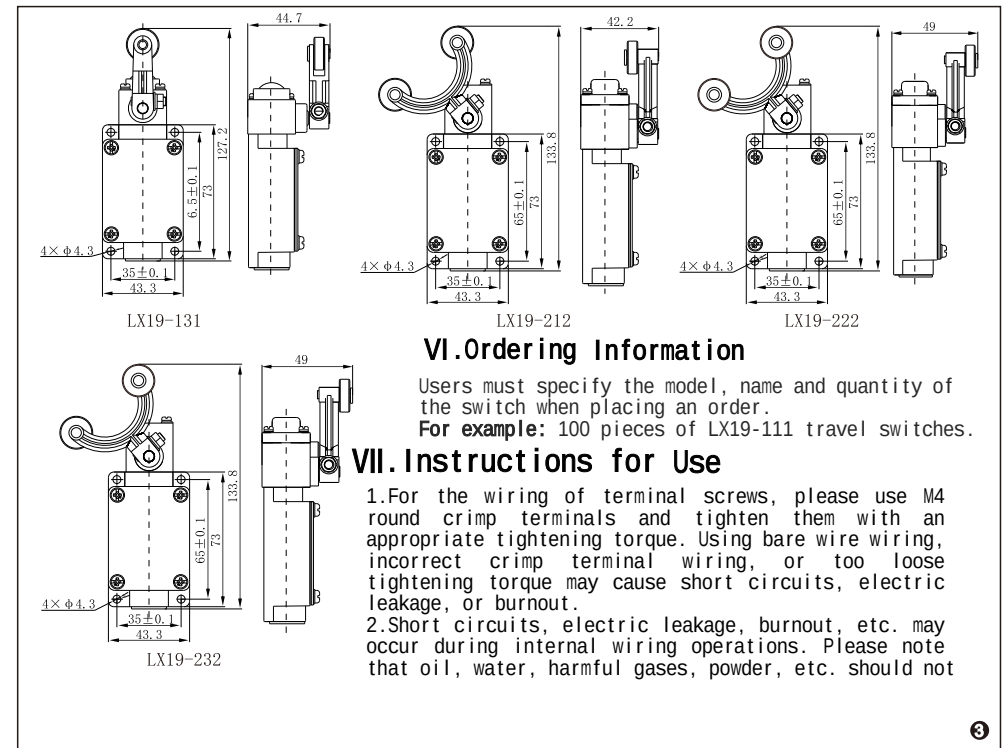
## IV. Contact Form



## V. Outline and Installation Dimensions



②



## VI. Ordering Information

Users must specify the model, name and quantity of the switch when placing an order.  
For example: 100 pieces of LX19-111 travel switches.

## VII. Instructions for Use

- For the wiring of terminal screws, please use M4 round crimp terminals and tighten them with an appropriate tightening torque. Using bare wire wiring, incorrect crimp terminal wiring, or too loose tightening torque may cause short circuits, electric leakage, or burnout.
- Short circuits, electric leakage, burnout, etc. may occur during internal wiring operations. Please note that oil, water, harmful gases, powder, etc. should not

③

enter the inside of the switch.  
3. Improper selection or handling (installation, fastening) of connectors may cause misoperation, electric leakage, burnout, etc. Therefore, please read this instruction manual carefully.  
4. Even if the connector is properly selected and handled, the end of the cable is connected to the inside of the switch. Therefore, please note that oil, water, or harmful gases should not enter from the end of the cable, which may cause misoperation, electric leakage, burnout, etc.  
5. Limit switches may also deteriorate due to being used outdoors or in contact with special cutting oil. Therefore, please consult when selecting the model.  
6. Please install the switch in a location where it will not be in direct contact with chips or dust. It must be ensured that no cutting chips or muddy substances accumulate on the drive rod and the switch body.  
7. When the switch is subjected to continuous vibration and impact, the generated wear debris may cause poor contact, malfunction, and reduced durability. In addition, excessive vibration and impact may cause contact misoperation and damage. Therefore, please install it in a location free from vibration and impact and in a direction where resonance will not occur.



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使用说明书  
Products Instructions

## LX19 Series Travel Switch

Thank you very much for using C-Lin travel switches. Please read the user manual before using the product!

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