Triac Rotary Panel Dimmer

Model No.: BQ-TTDIM

Rotary dimming/Trailing edge/Min brightness setting

Features

- Rotary panel AC phase-cut dimmer, 1 channel output.
- To dim and switch single color dimmable LED lamps, traditional incandescent and halogen lights.
- Rotate knob to change brightness, support push and with memory function.
- Min brightness set by Min knob.

Technical Parameters

CE **RoHS** emc LVD

Input and Output

Input voltage	AC200-240V
Output voltage	AC200-240V
Output current	Max 1.25A
Output power	5-300W

Environment

Operation temperature	Ta: -30°C ~ +55°C
Case temperature (Max.)	Tc:+85°C
IP rating	IP20

Weight

Net weight	0.085kg
Gross weight	0.098kg

Dimming data

Input signal	Rotary knob
Dimming range	0-100%

Safety and EMC

EMC standard (EMC)	EN 55015:2013 EN 61547:2009 EN 61000-3-2:2014 EN 61000-3-3:2013
Safety standard (LVD)	EN 61347-2-11:2002 EN 61347-1:2015 EN 62493:2015
Certification	CE,EMC,LVD

Warranty

Warranty	5 years

Compatible Load Types

| Load Type	Maximum Load	Remarks
Dimmable LED lamps	250W @ 220V	Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power factor result when connected to dimmer.
Triac Dimmable LED drivers	250W @ 220V	Maximum permitted number of drivers is 250W divided by driver nameplate power rating, and make sure the surge current is no more than 2 times 65A.
Incandescent lighting, HV Halogen lamps	400W @ 220V	

Mechanical Structures and Installations

Min Knob Setting Min Brightness

AC L intput(For Switch)

AC L intput(Main For Power)

AC L output

AC L intput(Spare For Switch)

85.80mm

85.80mm

50.0mm

50.0mm

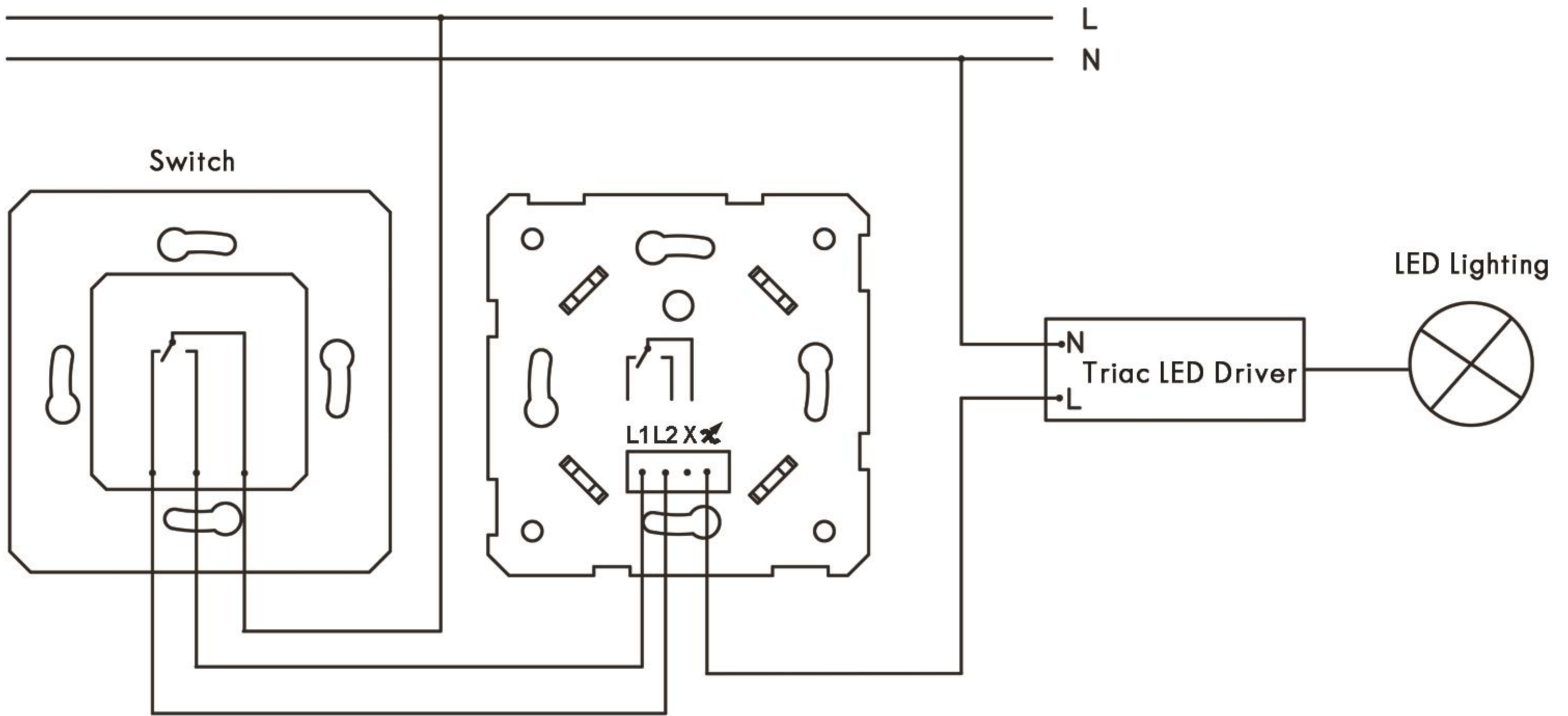43.90mm

23mm
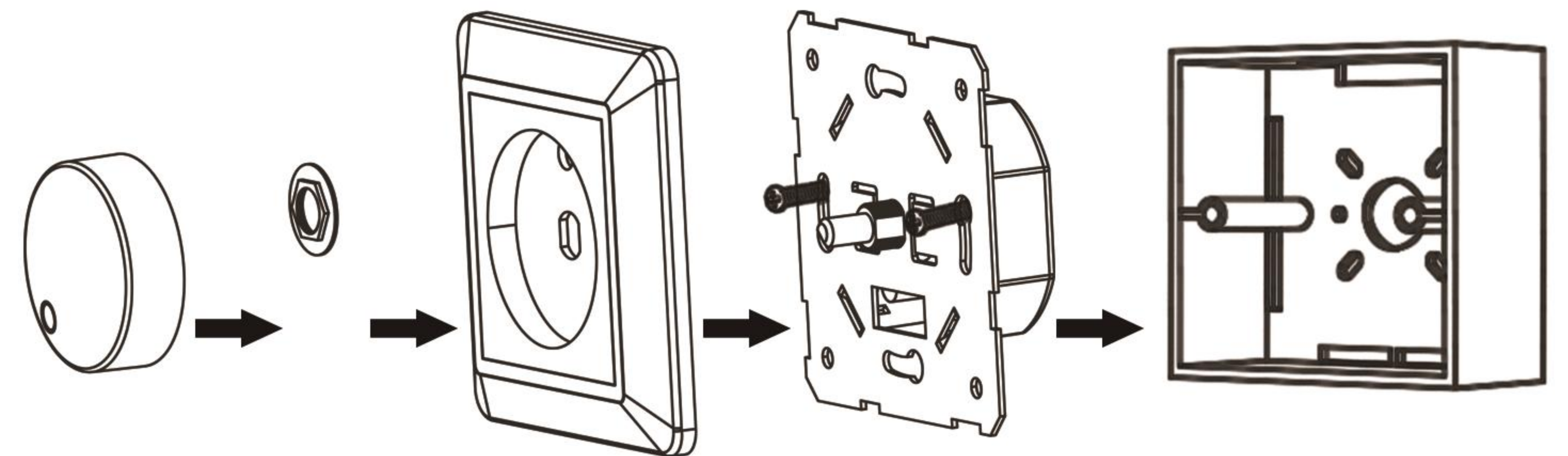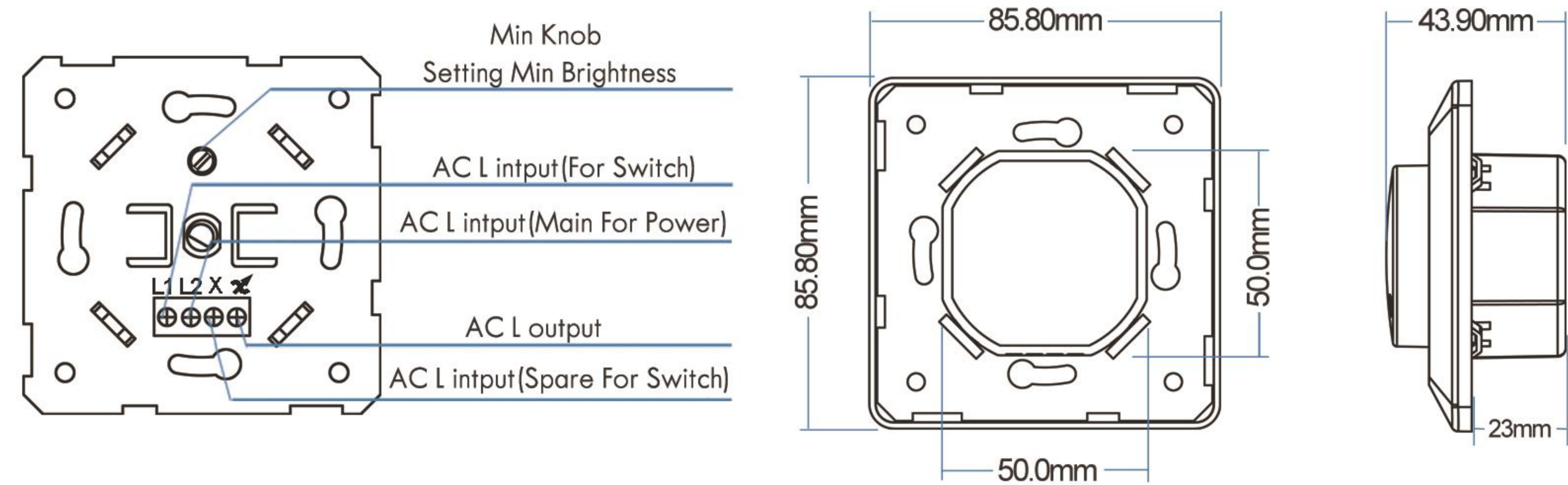
Wiring diagram

⚠ **Caution:** Please carefully ensure all wire connections and polarities are correct and secure before applying power, otherwise this controller will be damaged.

- BQ-TTDIM connect with dimmable LED driver

L
N

LED Lighting

N
Triac LED Driver
L
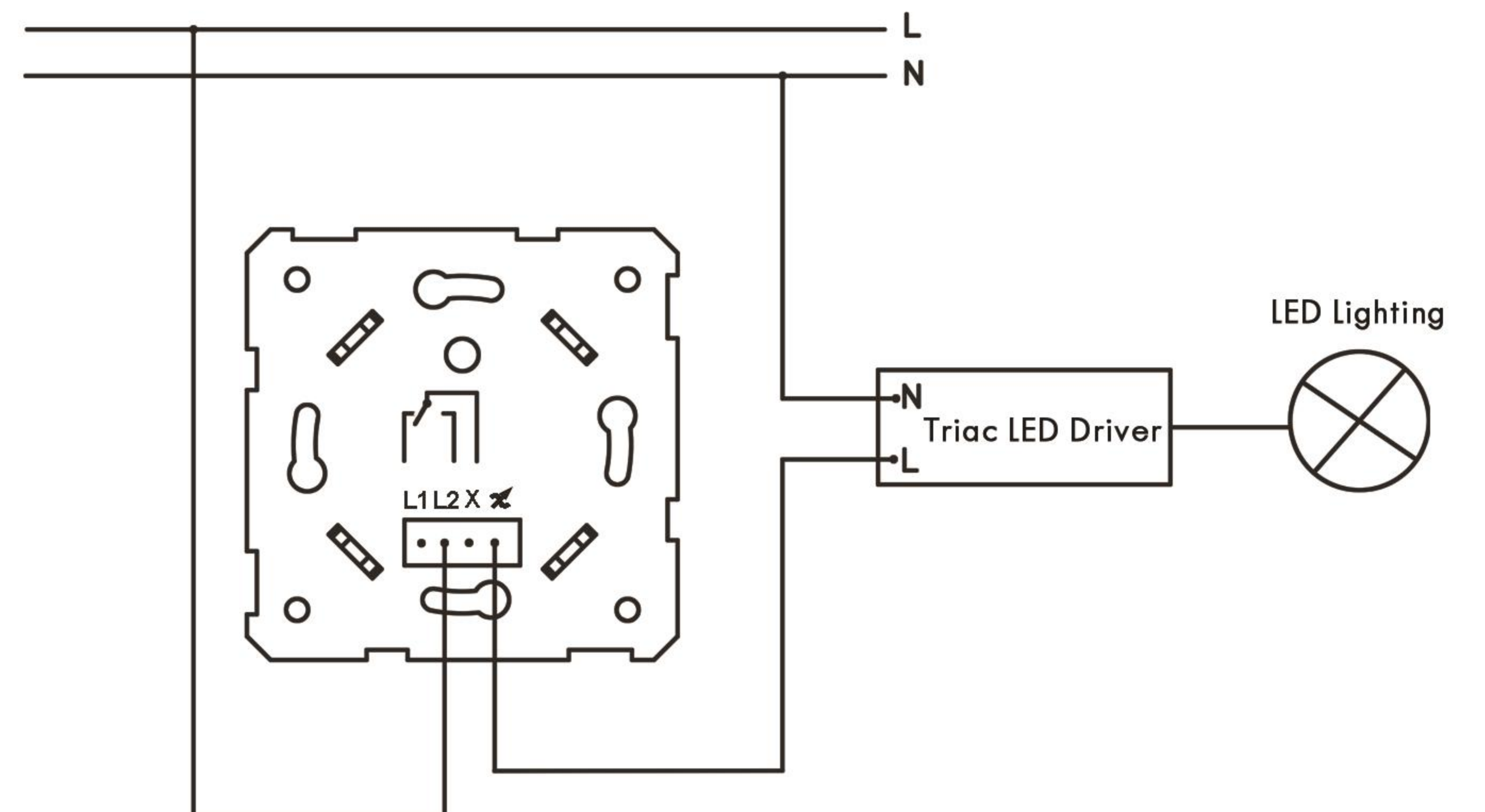
● BQ-TTDIM connect with switch and dimmable LED driver

L
N

Switch

LED Lighting

Triac LED Driver

L1 L2 X

N
L

Note: When calculating the maximum number of load lamps or drivers, the input power or input current parameters of a single lamp or driver must be used, the output power parameters can not be used.
In addition, the maximum surge current of the dimmer is 65A, the sum of surge current of multiple dimmable LED drivers should not exceed 2 times. Otherwise, the product will be overloaded and damaged.

Positioning point
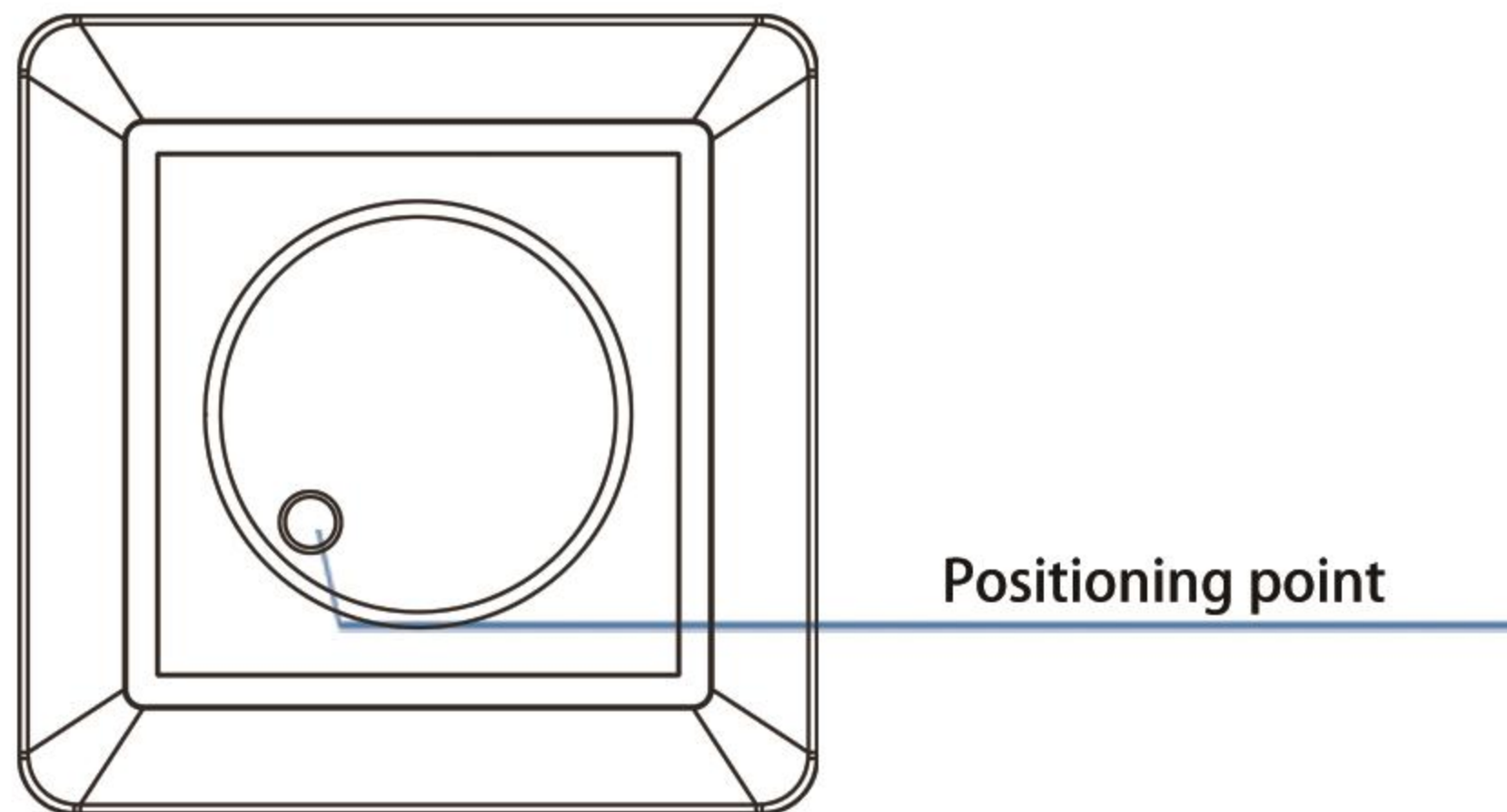
Knob Function

● Push: Turn on or off light.

   After turn on light:
● Rotate: Rotate knob to adjust brightness.
● Rotate knob clockwise, the brightness goes up,
● Rotate knob counterclockwise, the brightness goes down.

Malfunctions analysis & troubleshooting

Malfunctions	Causes	Troubleshooting
No light	1. No power. 2. Wrong connection or insecure.	1. Check the power. 2. Check the connection.