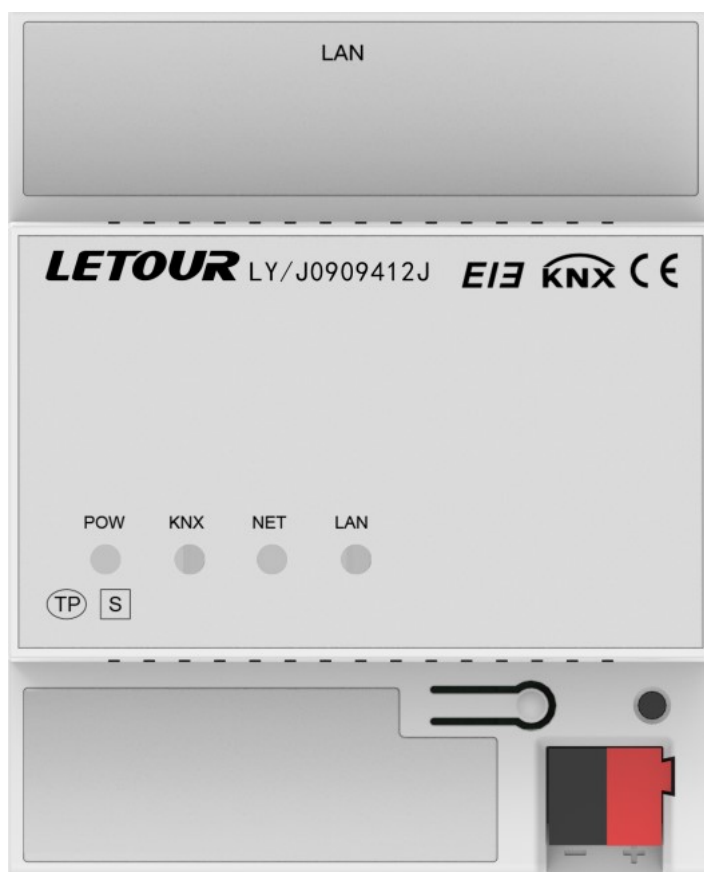


User Manual

IP Interface-v1.3

LY/J0909412J



KNX/EIB Home and Building Control System

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Chapter 1 Summary

This manual provides you the detailed technical information about the IP interface, not only the installation and programming details, but also the usage explanation in actual application. In order to facilitate installation in the distribution box, the switch actuator series products are designed as modular installation devices according to EN 60 715 and can be installed on 35 mm DIN rails.

1.1 Product and function overview

IP interface is a modular installation device, serving as an interface between KNX installations and IP networks. The PC software of the local network or the App software of the mobile terminal can control the KNX system through this device. The device is designed according to the KNXnet/IP protocol of the KNX Association standard. The device is connected to the system terminal using the EIB bus terminal, and no auxiliary power supply is required, and it is directly connected to the KNX bus. The relevant information of the device can be configured through the browser without database configuration and download.

The following are the functional features of the IP interface:

- Maximum number of connections: 4 channels;
- The equipment only needs KNX bus for power supply, which is more convenient and reliable;
- The device only needs to use a browser to configure the relevant information of the device;
- The device supports local firmware upgrade;
- The device can be connected to host software such as Control 4 or host computer software

Chapter 2 Technical Data & Dimension & Connection Diagram

2.1 Technical data

Application:

Model	Max. Number of communication objects	Max. Number of group address	Max. Number of association
LY/J0909412J	0	0	0

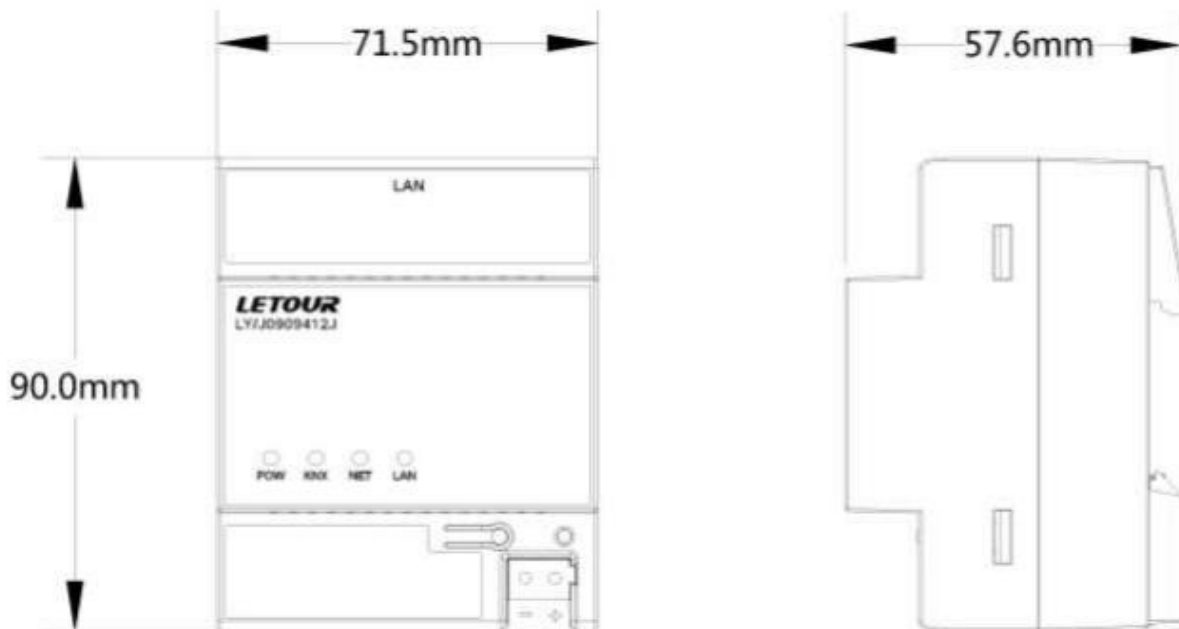
2.1.2 LY/J0909412J

Power supply	Operation voltage	21...30 V DC, via the KNX bus
	Current consumption	< 45 mA (30VDC)
	Power consumption	Max. 1.35W
Channel characteristics	Maximum number of channel connections	4
Connections	EIB / KNX	Via bus connection terminal (red/black)(ϕ 0.8mm)
Operating and display	POW LED	Indicates that the device power is normal (flashing)
	KNX LED	Indicates the KNX message sending status
	NET LED	Indicates the data transmission status of the network
	LAN LED	Indicates network connection status
Protection	IP 20	To EN60529
Safety class	II	To EN61140

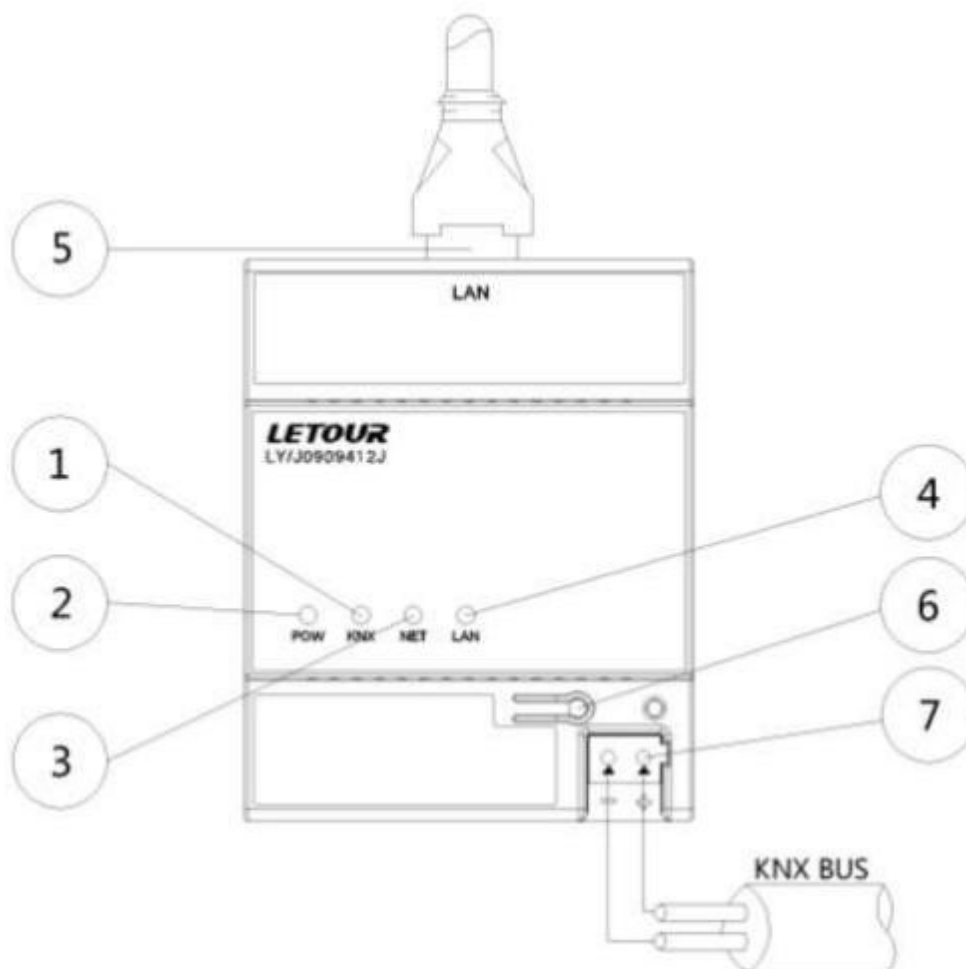
Temperature	Operation	- 5 ° C ... + 45 ° C
	Storage	- 25 ° C ... + 55 ° C
	Transport	- 25 ° C ... + 70 ° C
Design	DIN Rail Module Assemblies	35mm Din rail, modular installation
Dimensions		90 mm × 72mm × 64mm
Weight		0.3kg

2.2 Dimension & Connection Diagram

2.2.1 LY/ LY/J0909412J



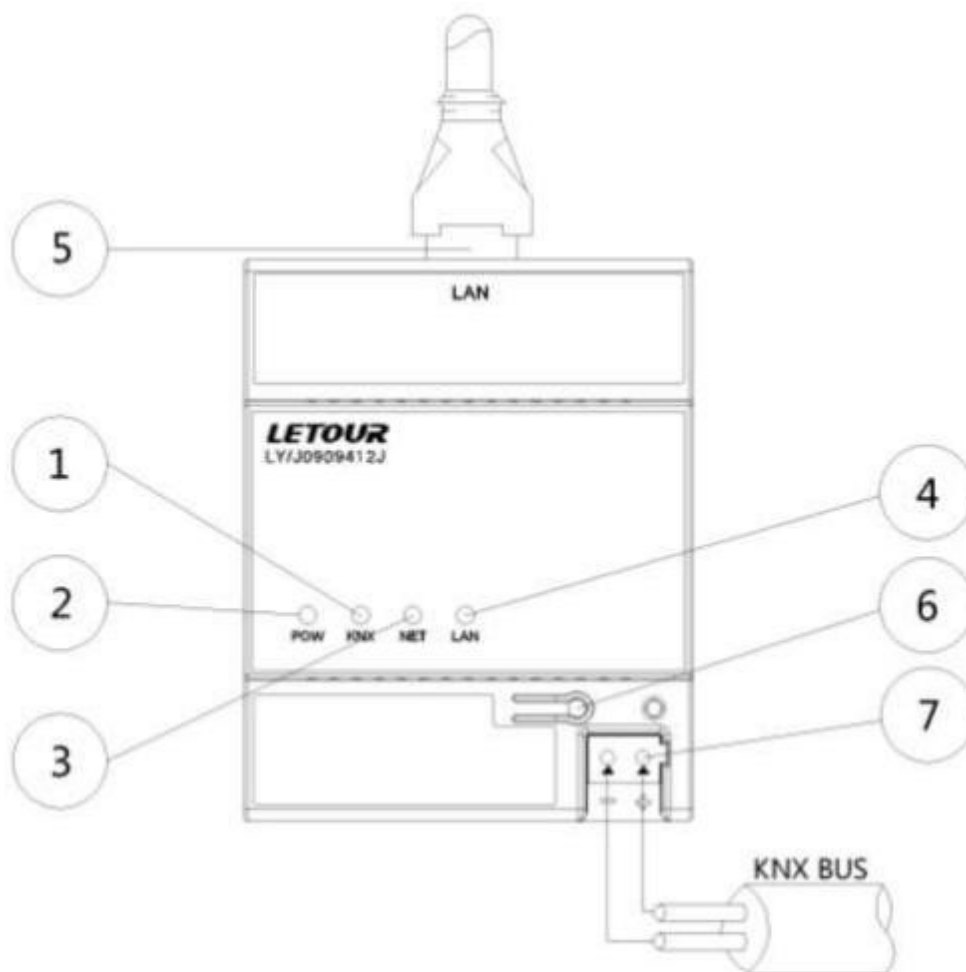
2.2.2 Connection diagram LY/J0909412J



- ① The KNX indicator light indicates the KNX message sending status
- ② The POW indicator light indicates that the device power is normal (flashing)
- ③ The NET indicator light indicates the data transmission status of the network
- ④ The LAN indicator light indicates the network connection status
- ⑤ Network Interface
- ⑥ Reset button, used to restore factory settings
- ⑦ KNX bus connection terminal

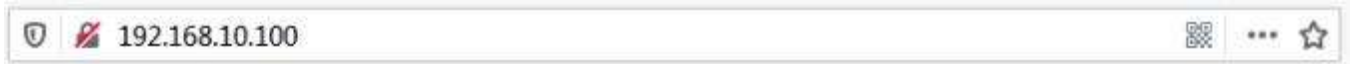
Chapter 3 Overview

3.1. Connect the wires according to the above figure, and judge according to the indicator light status after power on.



- ① Connect the device to the KNX bus and check whether the POW indicator light flashes normally;
- ② Connect the device to the network cable and check whether the LAN indicator light is always on;

3.2.Open the browser and enter the default IP address of the IP interface: 192.168.10.100



Note:

By pressing the programming button for more than 5 seconds, the IP interface settings can be reset. How do you determine if the IP interface has been successfully reset? If the IP interface is already connected to the network and the NET indicator is always on, after the reset, the NET indicator will first go out and then turn on.

3.3.Enter the main configuration page of the IP interface

Host Name:	KNXnetIP Device
Firmware Version:	0.13
MAC Address:	FC:C2:3D:27:09:2A
DHCP:(DHCP=4)	1
IP Address:	192.168.10.100
Subnet Mask:	255.255.255.0
Gateway:	192.168.10.1
KNX Tunnel Addr.	F.F.F1, F.F.F2, F.F.F3, F.F.F4, F.F.
Save And Reset	
Select the firmware:	浏览... 未选择文件。
Upload	

Note:

- ① The IP network segment of the computer connected to the IP interface must be set to the default network segment 192.168.10.1;
- ② The IP address of the computer connected to the IP interface cannot conflict with the default address of the IP interface.

3.4.Configuration content description

1. Host Name: KNXnetIP Device

2. Firmware Version: 0.13

3. MAC Address: FC:C2:3D:27:09:2A

4. DHCP:(DHCP=4) 1

5. IP Address: 192.168.10.100

6. Subnet Mask: 255.255.255.0

7. Gateway: 192.168.10.1

8. KNX Tunnel Addr. F.F.F1, F.F.F2, F.F.F3, F.F.F4, F.F.

9. Save And Reset

Select the firmware: 10. 浏览... 未选择文件.

11. Upload

- ① Device name: The name of the device displayed in ETS5; editable;
- ② Firmware version number: records the software version information of the device; cannot be edited;
- ③ MAC address: record the MAC address of the device; cannot be edited;
- ④ DHCP function: whether to enable, if enabled, enter 4; editable;
- ⑤ IP address: IP address settings; editable;
- ⑥ Subnet mask: Subnet mask settings; editable;
- ⑦ Default Gateway: Settings for the default gateway; editable;
- ⑧ 4*KNX address (starting address): Setting of KNX starting address; cannot be edited
- ⑨ Save and Restart: Used to save the content of this configuration page. After pressing this button and waiting for 5 seconds, the restart is completed;

- ⑩ Browse: Browse and select the upgrade firmware path; editable;
- ⑪ Upload: Firmware upgrade button; editable;

3.5. Save the configuration and restart



3.6. After restart, the information has been updated

Host Name:	Letour
Firmware Version:	0.13
MAC Address:	FC:C2:3D:27:09:2A
DHCP:(DHCP=4)	1
IP Address:	192.168.10.100
Subnet Mask:	255.255.255.0
Gateway:	192.168.10.1
KNX Tunnel Addr.	F.F.F1, F.F.F2, F.F.F3, F.F.F4, F.F.
Save And Reset	
Select the firmware:	浏览... 未选择文件.
Upload	

3.7. Open the ETS5 software and open the "Bus" settings tab



- ① Bus: Bus settings dialog;
- ② Discovered interface 3: The information of IP interface includes the physical address of IP interface, device name, IP address, and MAC address;
- ③ Discovered interface 2: local computer network card information including network card multicast address and MAC address;
- ④ Current interface: The current interface uses the local computer network card option;
(Because this IP interface uses the IP routing application, the local computer network card is currently selected as the discovered interface to implement)

3.8. IP routing selection settings:

- ① Name: Displays the information of the local computer network card; cannot be edited;
- ② Host Independent Address: The physical address of the IP interface; not editable;
- ③ Individual address: Connection address of the IP interface KNX net/IP; editable;
- ④ IP Address: IP address of the IP interface; cannot be edited;
- ⑤ Port information: port address of IP interface; cannot be edited;
- ⑥ MAC address: Displays the MAC information of the local computer network card; cannot be edited;
- ⑦ Test button: Communication connection test; after successful communication test, the following figure is shown



3.9. Return to the home page of ETS5, double-click the project name, then enter the project menu and proceed to the final selection interface.



After the selection is completed, it is as follows:



3.10.Set the KNX physical address and IP information of the IP interface through other down loaders

3.10.1.Import the database project file of the IP interface;



3.10.2.Set the physical address of the IP interface

- ① Select the device interface;
- ② Select "Properties";
- ③ Enter the physical address;



3.10.3. Set the IP address, subnet mask, gateway and other information of the IP interface;



- ① Choose to obtain an IP address automatically or set a static IP address;
- ② IP Address Settings
- ③ Subnet mask settings;
- ④ Default Gateway Settings
- ⑤ MAC address is displayed; information can be obtained when downloading the database for the second time;
- ⑥ Multicast address display;
- ⑦ Click "Download All";



3.11.If you want to restore the factory settings, please press the reset button (6) in the figure below for 5 seconds and wait for the NET indicator to go out and then light up again.

