

Technical Sheet for KNX IP Interface with Secure

BNIP-00/00.S

The worldwide **STANDARD** for home and building control

CHARACTERISTICS

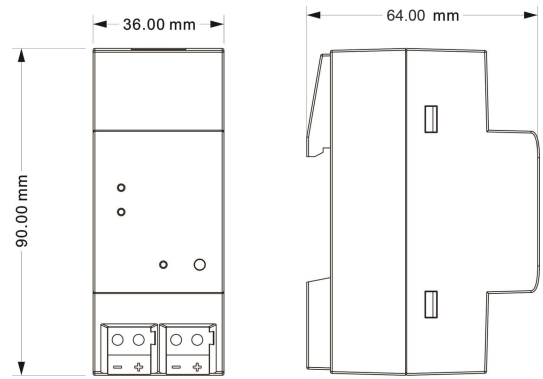
- Serves as a communication interface between KNX installations and IP networks
- For configure, parameterize and commission the KNX installation as well as group monitoring via the LAN using the ETS (ETS5 or later) software
- The IP address of the device can be fixed or obtained automatically via DHCP
- Support the UDP/TCP telegram, and the port number 3671
- Support upgrade the device via the network
- Supports the KNX Secure protocol (KNXnet/IP Security).
- Support 5 clients
- The factory default physical address: 15.15.254
- The factory default IP address : 192.168.2.200, subnet mask: 255.255.255.0, default gateway: 192.168.2.1

PARAMETERS

Power supply	Operation voltage	21-30V DC, via the KNX bus
	Bus current	<19.5mA, 24V <15.5mA, 30V
	Bus consumption	<470mW
Connections	KNX	Bus connecting terminal (red/black)
	LAN	RJ45 socket for 10/100Base-T
Operation and display	Red LED and button	For assigning the physical address
	LAN LED ON	Network connection indicator
	LAN LED flashing	Network telegram traffic indicator
	KNX LED ON	Bus connection indicator
	KNX LED flashing	Bus telegram traffic indicator

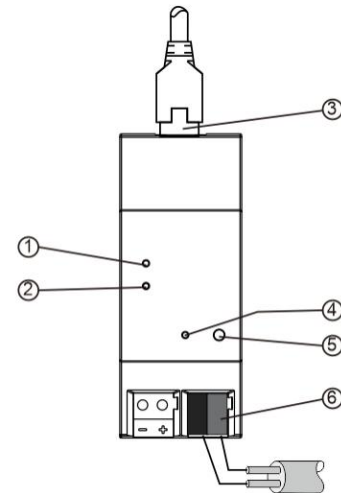
Temperature	Operation	-5 °C ... + 45 °C
	Storage	-25 °C ... + 55 °C
	Transportation	- 25 °C ... + 70 °C
Ambient	Humidity	<93%, except dewing
Design		Standard 35mm DIN rail installation

DIMENSIONS



Model	Dimension	Weight
BNIP-00/00.S	36 x 90 x 64 mm	0.1kg

DESCRIPTIONS



- ① LAN LED ON, indicate that network connect normally
LAN LED flashing, indicate that telegram traffic between device and network
- ② KNX LED ON, indicate that KNX bus connect normally
KNX LED flashing, indicate that telegram traffic between KNX bus and device
- ③ LAN connection
- ④ Programming LED, red LED ON for assignment of physical address
- ⑤ Programming button, to enter or exit the physical address programming mode
Reset the device to the factory configuration: press the programming button and hold for 4 seconds then release, repeat the operation for 4 times, and the interval between each operation is less than 3 seconds
- ⑥ KNX bus connection terminal

INSTALLATION FIGURE

The devices are suitable for installation on the distribution boards with 35mm mounting rail which complies with DIN EN 60715 or a small box in order to facilitate quick installation of the device. Must ensure that the device operation, testing, detecting, maintenance correctly.

IMPORTANT INFORMATION

Installation and commissioning of the device may only be carried out by trained electricians. The relevant standards, directives, regulations and instructions must be observed when planning and implementing the electrical installation.

- Protect the device against moisture, dirt and damage during transport, storage and operation!
- Do not operate the device outside the specified technical data (e.g. temperature range)!
- The device may only be operated in closed enclosures (e.g. distribution boards).

Should the device become soiled, it may be cleaned with a dry cloth. If this does not suffice, a cloth lightly moistened with soap solution may be used. On no account should caustic agents or solvents be used.

适用型号:

BNIP-00/00.S

国际标准的家庭和楼宇控制系统

产品功能

- 作为 KNX 系统和以太网之间的通讯接口
- 可以给 KNX 装置分配物理地址，配置参数，对 KNX 装置进行调试，及群组监控
- 设备的 IP 地址可手动分配或通过 DHCP 自动获取
- 支持 UDP/TCP 报文，端口号为 3671
- 支持通过网络升级本设备
- 支持 KNX 安全协议 (KNXnet/IP Security)
- 支持 5 个客户端
- 出厂默认物理地址：15.15.254
- 出厂默认 IP 地址：192.168.2.200，子网掩码：255.255.255.0，默认网关：192.168.2.1

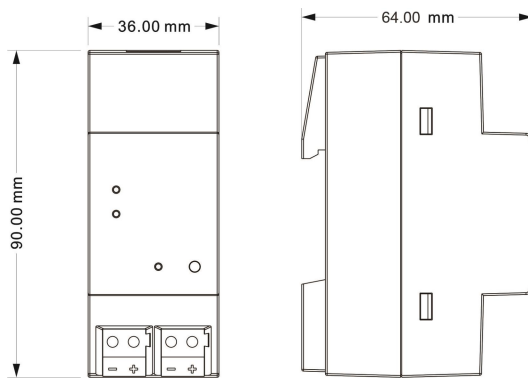
技术参数

电 源	工作电压	21-30V DC，由总线提供
	总线电流	<19.5mA，24V <15.5mA，30V
	总线功耗	<470mW
连 接	KNX	总线连接端子(红/黑)
	LAN	RJ45 端口 10/100Base-T
操作和指示	红色 LED 和按键	分配物理地址
	LAN LED 亮	指示设备连接到网络
	LAN LED 闪	指示设备与网络进行通讯
	KNX LED 亮	指示设备连接到 KNX 总线
	KNX LED 闪	指示设备与总线之间有报文传输

温度范围	运行	-5 °C ... + 45 °C
	存储	-25 °C ... + 55 °C
	运输	- 25 °C ... + 70 °C

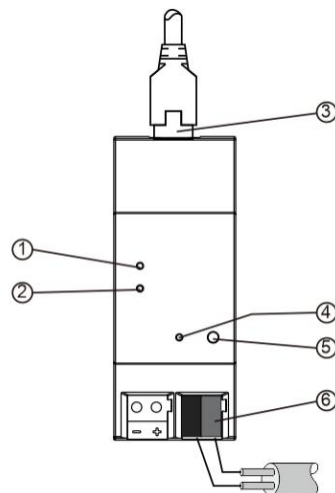
环境条件	湿度	<93%,结露除外
设 计	DIN 导轨模块组件	35mm 丁导轨，模块化安装

尺寸规格



型号	尺寸	重量
BNIP-00/00.S	36 x 90 x 64 mm	0.1kg

接线图



说明

- ① LAN LED ON，网络连接指示；LAN LED 闪烁，网络与设备间有数据传输
 - ② KNX LED ON，总线连接指示；KNX LED 闪烁，总线与设备间有数据传输
 - ③ LAN 连接
 - ④ 红色 LED 指示进入物理地址编程状态
 - ⑤ 编程按钮，操作按钮进入或退出物理地址编程模式
- 重置设备到出厂配置：长按编程按钮约 4 秒，长按 4 次，且每次松开间隔小于 3 秒**
- ⑥ KNX 总线连接端子

安装说明

此设备为了方便快速安装到配电箱或小盒子里面，根据 EN 60715 系列设计成模块化安装设备，能安装在 35 毫米丁导轨上。安装时必须确保设备操作、测试、检测、维护、维修正确无误。

重要提示

安装和调试设备只能由合格的熟练电工来操作。在计划与实施电气安装的过程中相关的标准、指令、规则和指示都要严格执行。

- 需要避免器件在运输、储存、使用的过程中受潮、脏污以及受损。
- 不要使器件运行在指定的技术指标之外（例如温度范围）。
- 器件只可以运行在封闭的环境中（例如配电箱）。

当设备脏污时，只可以使用干燥的布来清洁。如果这样不足以清洁干净，可以使用湿布蘸少许肥皂溶液轻轻擦拭。绝不能使用碱剂或者腐蚀性溶剂。