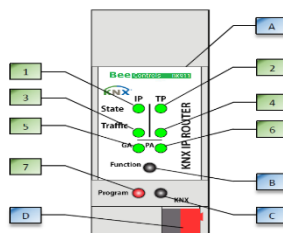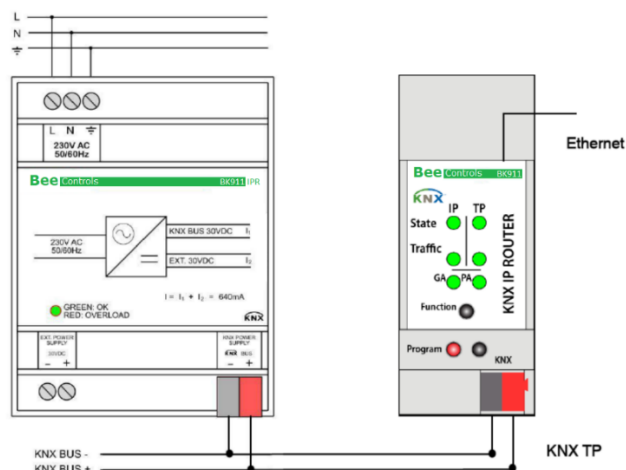# BK911IPR Module

## KNX IP ROUTER

## DESCRIPTION

BK911IPR is a KNX net/IP routing & tunneling device and works as KNX IP line/area coupler, without any need for any external power supply. The ability to address all bus devices in the KNX bus system makes network operations less time-consuming. Operational and filtering states, malfunction and faulty communication are indicated by LEDs. UPnP is available and the firmware can be updated by a comfortable Web front-end.

BK911IPR connects the two-communication media Ethernet/ KNX IP and KNX TP to feature (for all bus devices connected):

↗ Commissioning.

↗ Addressing.

↗ Setting parameters.

↗ Visualization.

↗ Protocol.

↗ Diagnostic operations.

BK911IPR is able to filter the traffic according to the installation place in the bus system hierarchy and according to the built-in filter tables for group-oriented communication. Configuring from the subline can be blocked. Message filtering can be temporarily deactivated by a single button press. The time period to automatically switch back to normal operation is ETS-configurable. To ease commissioning, temporary access to other lines is possible also without download from the ETS.

## CONNECTION DIGRAM



**A:** Ethernet Connector
**B:** Function button.
**C:** Program button.
**D:** KNX TP connector.

| | | |
|---|---|---|
| 1 | State IP | Green: IP OK<br>Red: manual function active |
| 2 | KNX Bus State | Green: Bus OK |
| 3 | IP Telegram traffic | Green: Telegram traffic extent.<br>Red: Transmission error. |
| 4 | KNX Telegram Traffic | Green: Telegram traffic extent.<br>Red: Transmission error. |
| 5 | Group Address routing | Green: Filter active<br>Orange: Route all<br>Red: Block all<br>Off: IP / KNX line different |
| 6 | Physical Address routing | Green: Filter active<br>Orange: Route all<br>Red: Block all<br>Off: IP / KNX Line different |
| 7 | Programming | Red: Program Mode<br>Red Blink: No IP Connection |

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KNX

## MOUNTING AND SAFETY INSTRUCTIONS

↗ The device should only be installed and put into operation by qualified electrician or authorized person.

↗ Failure to observe the instructions may cause damage to the device and result in fire and other hazards

↗ Do not connect the main voltage (230 VAC) or any other external voltages to any point of the KNX bus.

↗ Ensure that there is enough insulation and space between the 230 VAC voltage cables and KNX bus.

↗ Installation only in dry locations and on a 35 mm DIN rail (35 mm) and do not expose this device to direct sunlight, rain or high humidity.

↗ Do not use aerosol sprays, solvents or abrasives that might damage the device.

↗ Accessibility of the device for operation and visual inspection must be provided.

## CONFIGURATION:

The assignment of the physical addresses as well as the parameterization is carried out with KNX Tool (ETS).

## TECHNICAL DATA:

| Electrical Parameters | |
|---|---|
| Device Name | BK911IPR |
| Power Supply | KNX BUS Voltage |
| Current consumption | 20mA |
| IP communication connector | RJ45 (Ethernet connector) |
| Environmental parameters | |
| Operating Humidity | >90 RH |
| Storage Humidity | Up to 92% |
| Operating temperature | -10℃ ~ +60℃ |
| Storage Temperature | -15°C ~ +70°C |
| Transport Temperature | -15°C ~ +85°C |
| Device Parameters | |
| Protection type | IP20 |
| Input type | Dry Contact |
| Mounting | Din Rail (35 mm) |
| Flammability | Non-Flammable Product |
| Dimensions (W x H x D) mm | 36 X 90 X 71 |
| KNX Bus Connector | 0.6 ~0.8 Ø, solid |
| Output connectors | Screw terminal, 2.5 mm2 stranded ~ 4 mm2 Solid |
| Max. cable length | 4 Meters |
| Tightening torque | Maximum 0.4 Nm |
| Available colors | Light Gray |