BKX0X0U-BIO

KNX PUSH-BUTTON INTERFACE

4, 6 or 8 Inputs + LED Outputs | Flush Mounting



DESCRIPTION

The BKX0X0U-BIO is a KNX push-button interface that connects conventional push buttons, switches and sensors with potential-free (dry) contacts to the KNX bus. It is available with 4, 6 or 8 inputs, each with a matching LED output for status feedback.

The module is powered by the KNX bus and is installed in a flush-mounting box, behind the conventional switches it connects.

Main Functions

- Switch and push-button inputs.
- LED outputs to show the status of each button or function.
- Conventional sensors with potential-free contacts.
- Blind and shutter control.
- Door and window contacts.

Models and Variations

Model	Inputs (KEY)	LED outputs (LED)
BK4040U-BIO	4	4
BK6060U-BIO	6	6
BK8080U-BIO	8	8

Connection Diagram



1	**KNX bus terminal** (red +, black –)
2	**Programming button and LED:** the red LED is on while the module is in physical-addressing mode
3	**KEY:** input terminals (GND + inputs 1–8)
4	**LED:** output terminals (VCC + LED outputs 1–8)

Configuration

The physical address and all parameters are set with the ETS (KNX Tool Software).

Technical note: choose the maximum input cable length according to the conductor type, and never run power cables next to the input cables or in the same conduit.

Safety Instructions

- The device should only be installed and put into operation by a qualified electrician or authorized person.
- Failure to observe these instructions may damage the device and may result in fire or other hazards.
- Do not connect mains voltage (230 VAC) or any other external voltage to any point of the KNX bus.
- Ensure adequate insulation and separation between 230 VAC cables and the KNX bus.

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- Install only in dry indoor locations. Do not expose the device to direct sunlight, rain or high humidity.
- Do not use aerosol sprays, solvents or abrasives that may damage the device.
- The device must remain accessible for operation and visual inspection.

Technical Data

Electrical Parameters	BK4040U-BIO	BK6060U-BIO	BK8080U-BIO
Inputs / LED Outputs	4 / 4	6 / 6	8 / 8
Power Supply	KNX bus voltage	KNX bus voltage	KNX bus voltage
Bus Power Consumption	50 mW	50 mW	50 mW
Max. Assignments	252	252	252
Max. Group Addresses	252	252	252

Environmental Parameters

Parameter	Specification
Operating Humidity	< 90% RH
Storage Humidity	Up to 92%
Operating Temperature	-10 °C to +60 °C
Storage Temperature	-15 °C to +70 °C
Transport Temperature	-15 °C to +85 °C

Device Parameters

Parameter	Specification
Protection Type	IP20
Input Type	Dry (potential-free) contact
Mounting	Flush-mounting box
Flammability	Non-flammable product
Dimensions (W × H × D)	40 × 40 × 10 mm
KNX Bus Connector	0.6–0.8 mm Ø, solid
Input / Output Connection	Pin-header terminals (KEY and LED)
Available Colors	Light Gray

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