ABB i-bus® KNX
Binary Input BE/S
Product Information

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ABB i-bus® KNX
Binary Input BE/S

Wide-range inputs and a streamlined range – The new ABB i-bus® KNX Binary Inputs.

ABB i-bus® KNX Binary Inputs serve as an interface for operation of KNX systems via conventional push buttons and switches as well as for processing binary signals (signalling contacts).

In contrast to the existing solutions, where the input voltages of 24 V and 230 V required separate devices, the new Binary Inputs now feature widerange inputs, which can process voltage signals ranging from 10 to 230 V AC/DC. This offers the installer significantly greater flexibility.

In addition to two devices with 4 and 8 wide-range inputs, the new ABB i-bus® KNX Binary Input product range is rounded off by two devices with 4 and 8 inputs with scanning voltage. On these types, a pulsed scanning voltage is provided for connection of floating contacts from the device.

With an identical range of applications, the number of ABB i-bus® KNX Binary Inputs is now reduced from 6 types to 4.

All Binary Inputs feature a high-quality membrane keypad for comfortable manual operation and display of the device functions. Input states can be simulated at the device, so that the conventional push buttons, switches or floating contacts do not need to be connected for commissioning purposes. The device functions can be easily tested during commissioning in this way.

The Binary Inputs are powered via the KNX and do not require an additional power supply.

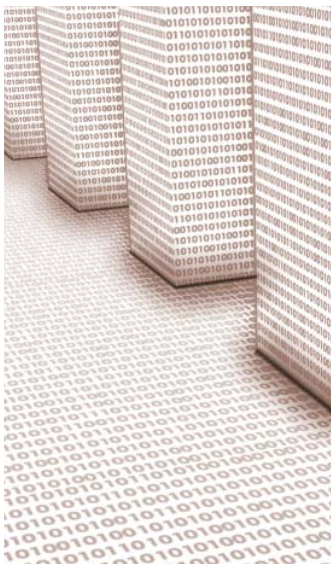
The software functionality of the Binary Inputs has also been extended. It is now possible to send several switching telegrams with just a single push of a button.
Especially useful, just as in the case of the Switch Actuators, it is also possible to copy the channels of the device in the ETS. The parameters and group addresses of a channel can be simply transferred to other channels in this way. This simplifies project engineering and helps reduce sources of error.

Application
Operation of KNX systems via conventional push buttons and switches
Processing of binary signals (signalling contacts)

Benefits
Flexible application
Reduced stock requirement
Simplified commissioning

Product
BE/S 4.20.2.1 with 4 inputs for contact scanning and manual operation
BE/S 4.230.2.1 with 4 wide-range inputs and manual operation
BE/S 8.20.2.1 with 8 inputs for contact scanning and manual operation
BE/S 8.230.2.1 with 8 wide-range inputs and manual operation

Operating Modes:
Flexible Options For Different Requirements



Switch sensor/Fault monitoring input

For scanning conventional inputs.
Distinction between short/long operation and cyclical sending of the contact state is possible.
Blocking of a binary input is possible.
The operating mode can be used as fault monitoring input.
Up to three communication objects can be programmed differently and can be sent on the KNX.

Switch/Dim sensor

For control/dimming of lighting via a 1 button and 2 button operation.
Start-stop dimming and stepwise dimming as well as switching and dimming via a single push button are possible.

Blind sensor

For control/slat adjustment of a blind or a shutter in 1 button operation and 2 button operation.
Eight preset operating responses are possible in total.

Value/Forced operation

For sending of arbitrary values of different data types, e.g. temperature values.
It is possible to send different values or data types after a short/long operation. Activation/deactivation of the forced operation of actuators is also possible.

Control scene

For calling and storing the states of up to six actuator groups.
The actuator groups can be controlled via six individual communication objects.

Switching sequences

For the operation of several actuator groups in preset sequences.

Multiple operation

For triggering of different functions depending on the frequency of actuation.
Even a long actuation can be detected and a function triggered.

Counter

For counting input pulses.
Different data types can be set. An additional differential counter enables counting of daily values for example.
Different count rates can be set.
The main and differential counters can be reset.

Contact

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