ABB i-bus® KNX Binary Inputs

Seamlessly Control, Process Signals and More.

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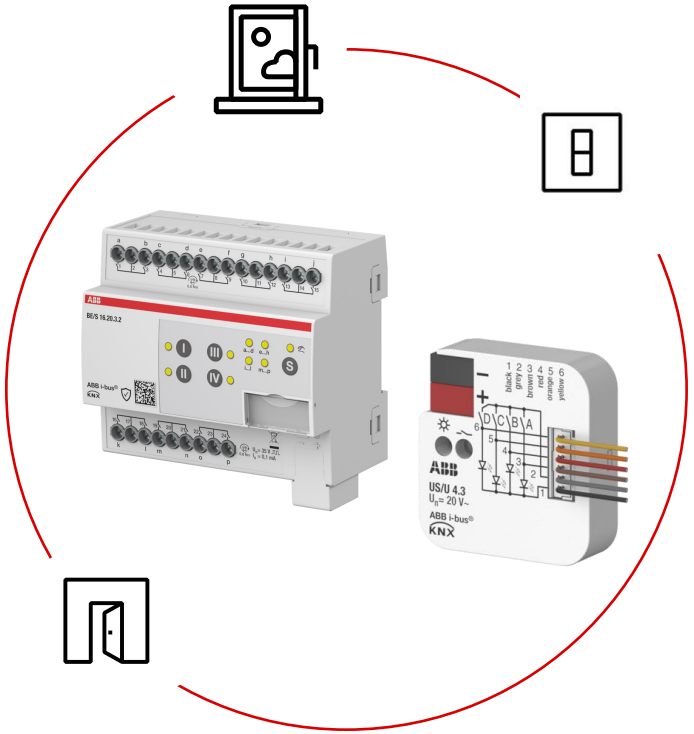
ABB i-bus® KNX Binary Inputs

Introduction

ABB i-bus® KNX binary inputs serve as an interface for the operation of KNX systems via conventional push buttons and switches as well as for processing binary signals.



Main Benefits

ABB i-bus® KNX Binary Inputs

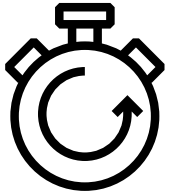
Main Benefits

Comprehensive Portfolio

- A larger portfolio that meets all requirements
- Simplicity of device selection
- Harmonized look and feel (e.g., keypad)
- More value for money

Security

- Excellent security of the KNX installation with KNX Data Secure
- Forward and backward compatibility



Reduction of Commissioning Time

- Improved user experience through optimized ETS Application (structure, wording, functionality)
- Reducing time by using templates

Functionality

- Simplifying complex functions
- Logic
- Support of S0-Signals for counter application

Main Features

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ABB i-bus® KNX Binary Inputs

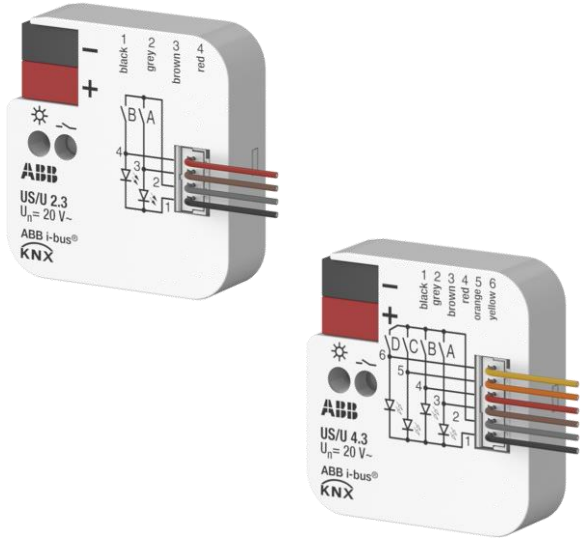
Range Overview

Binary Inputs with Contact Scanning

- BE/S x.20.3.2
- 4, 10 and 16 inputs
- Keypad for status indication and manual operation
- Optimized functionality (e.g., logic function)
- KNX Data Secure

Binary Inputs 10…230 V

- BE/S x.230.3.2
- 4, 8, 10, 12 and 16 inputs
- Keypad for status indication and manual operation
- Optimized functionality (e.g., logic function)
- KNX Data Secure



Universal Interfaces

- US/U x.3
- 2 and 4 inputs
- Output voltage is lower for LED control (3.3 V instead of 5 V)
- Optimized functionality (e.g., logic function)
- KNX Data Secure

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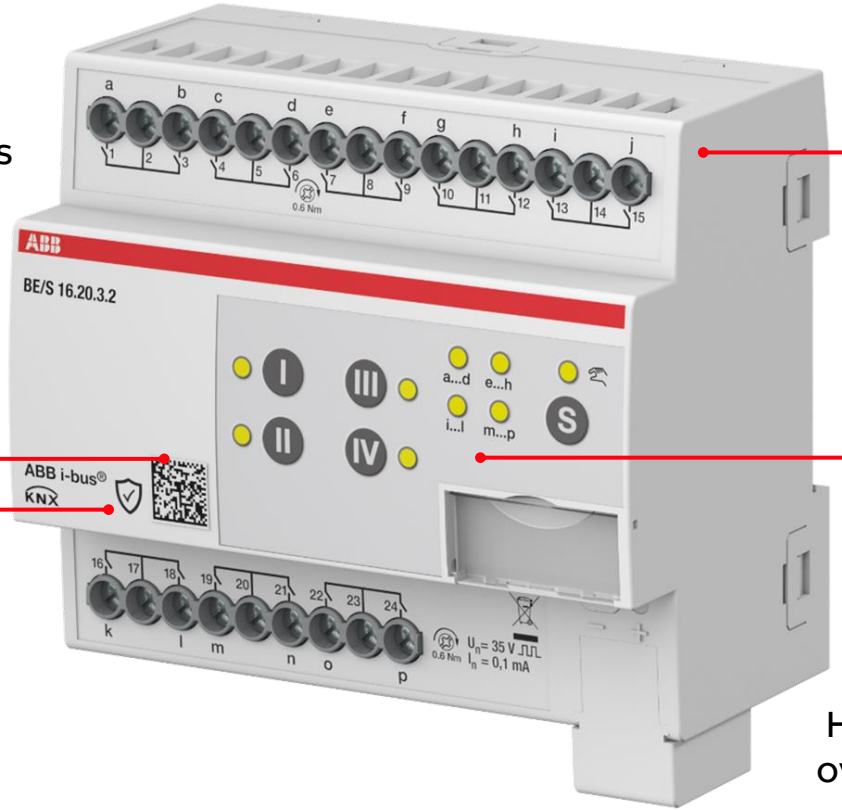
Hardware Features

Traceability
Implementing digital service features and diagnostics



Comprehensive Portfolio
A larger portfolio that meets all requirements

Simplicity of device selection

KNX Data Secure
Excellent security of the KNX installation with KNX Data Secure

New Keypad
Harmonized look and feel over the newest portfolios

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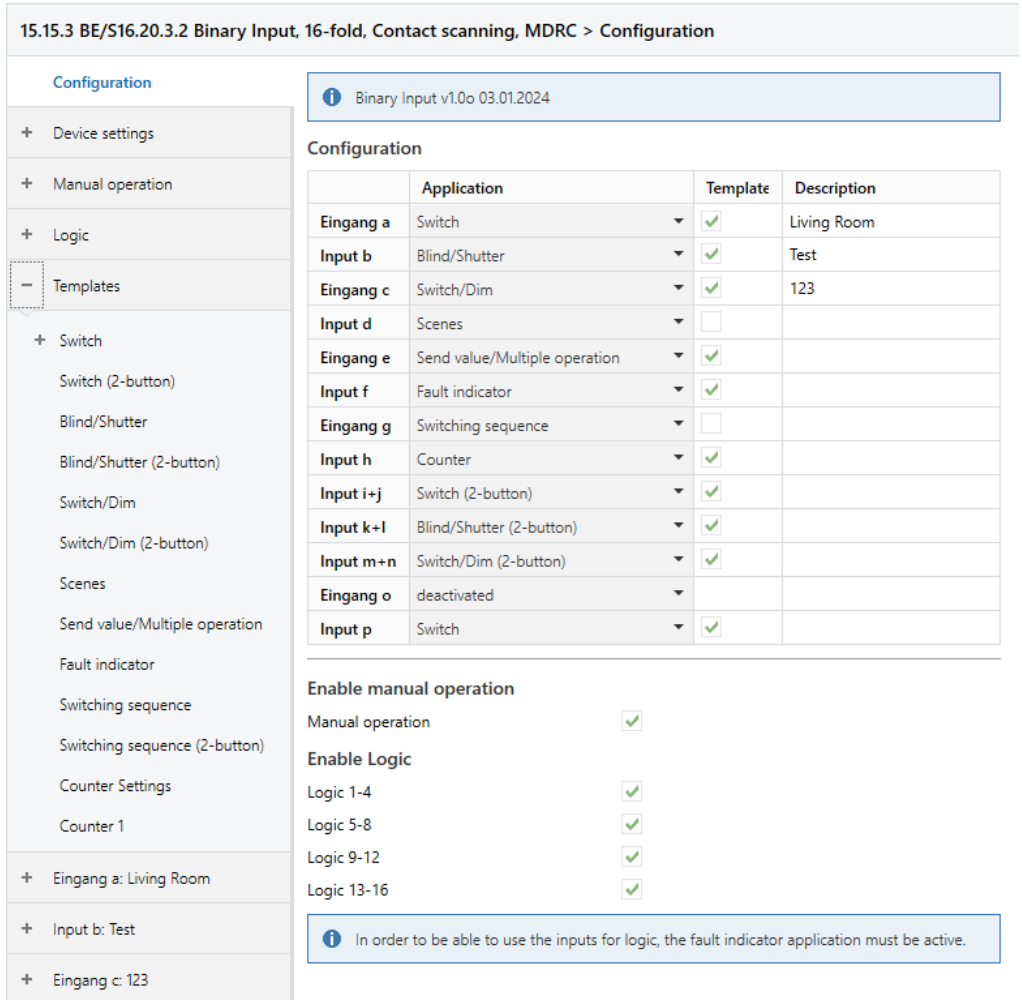
Software Features

- Improved usability
  - Templates & naming of channels and group objects
  - Reduced parameter texts & seldomly needed parameters are hidden
  - Parameterization in tables (e.g., Multiple operation)
- Central configuration
- Improved detection of input signals, even in the presence of interferences
- 11 different applications
  - Switching, Blind/Shutter, Switch/Dim, Scenes, Send value/Multiple operation, Fault indicator, Switching sequence, Counter
  - Logics (And, Or, Exclusive Or)
- Manual operation
- KNX Data Secure



KNX Data Secure

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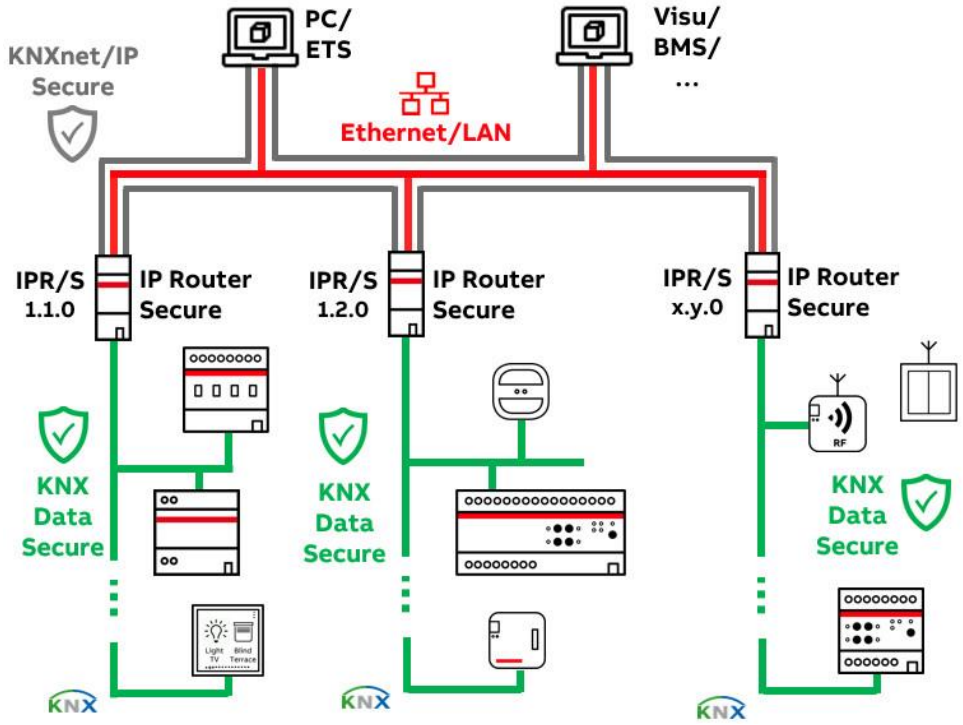
KNX Data Secure

Overview

- KNX Data Secure ensures the encryption of telegrams on twisted pair (TP)
- This is where most of the KNX devices are connected
- KNX Data Secure is mandatory for KNX RF Multi Standard and recommended for KNX TP
- In a KNX TP/RF system, secure and plain devices can be used in parallel
  → Not all devices have to be secure
- In a KNX installation, KNXnet/IP Secure and KNX Data Secure devices can be used in parallel
- Secure commission (download of individual address and application)
- Secure devices are protected against unauthorized programming
- KNX Secure is based on “Advanced Encryption Standard (AES 128 bit) and is standardized according to ISO/IEC 18033-3

For more information about KNX Data Secure watch our Webinar recording!



Ordering Details

ABB i-bus® KNX Binary Inputs

Ordering Details

More information available on the product pages!

Product Type	Product ID	EAN	Product Name	Description	Module Width
BE/S 4.20.3.2	2CDG110276R0011	40 53546 11082 1	Binary Input, 4-fold, Contact Scanning, Manual Operation, MDRC	Detects AC/DC signals in the voltage range from 12...230 V. The state of the input is displayed via yellow LEDs. The binary inputs enable detection of independent input signals. The devices feature a manual operation pushbutton for each channel. The devices are powered via the ABB i-bus® and do not require an additional power supply. The devices support KNX Data Secure.	2
BE/S 10.20.3.2	2CDG110277R0011	40 53546 11083 8	Binary Input, 10-fold, Contact Scanning, Manual Operation, MDRC		4
BE/S 16.20.3.2	2CDG110278R0011	40 53546 11084 5	Binary Input, 16-fold, Contact Scanning, Manual Operation, MDRC		6
BE/S 4.230.3.2	2CDG110279R0011	40 53546 11085 2	Binary Input, 4-fold, 10-230V, Manual Operation, MDRC	Scans floating contacts with internally generated scanning voltage. The state of the input is displayed via yellow LEDs. The binary inputs enable detection of independent input signals. The devices feature a manual operation pushbutton for each channel. The devices are powered via the ABB i-bus® and do not require an additional power supply. The devices support KNX Data Secure.	2
BE/S 8.230.3.2	2CDG110280R0011	40 53546 11086 9	Binary Input, 8-fold, 10-230V, Manual Operation, MDRC		4
BE/S 10.230.3.2	2CDG110281R0011	40 53546 11087 6	Binary Input, 10-fold, 10-230V, Manual Operation, MDRC		4
BE/S 12.230.3.2	2CDG110282R0011	40 53546 11088 3	Binary Input, 12-fold, 10-230V, Manual Operation, MDRC		6
BE/S 16.230.3.2	2CDG110283R0011	40 53546 11089 0	Binary Input, 16-fold, 10-230V, Manual Operation, MDRC		6

ABB i-bus® KNX Binary Inputs

Ordering Details

More information available on the product pages!

Product Type	Product ID	EAN	Product Name	Description	Module Width
US/U 2.3	2CDG110308R0011	40 53546 11157 6	Universal Interface, 2-fold, FM	The universal interface has 2 or 4 channels which can be parametrized as inputs or outputs with the ETS software. Conventional push-buttons, auxiliary contacts and LEDs can be connected. The connecting cables can be extended up to 10 m. The contact scanning voltage and the supply voltage for the LEDs are made available by the device, the series resistors for the LEDs are integrated. The devices support KNX Data Secure.	-
US/U 4.3	2CDG110309R0011	40 53546 11158 3	Universal Interface, 4-fold, FM		-

Resources and Support

ABB i-bus® KNX Binary Inputs

Resources

Product information

Product webpage

Documentation

KNX Product Range Overview

Selection tables

Training

Webinar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