Smart home and building solutions. Global. Secure. Connected.

KNX BINARY INPUTS

Intelligent interface to KNX systems

Versatile, reliable and intuitive to use:
the new generation of binary inputs as an extension of the DIN-rail mounted devices portfolio

Developed for a wide range of applications
The new N 262 and N 263 binary inputs extend the Siemens DIN-rail mounted device portfolio. The devices are available in a width of 4 MU (4 binary inputs) and 8 MU (8 binary inputs), each as a potential-free and a voltage-loaded variant. The harmonized housing concept of the new generation of DIN-rail mounted devices has also been implemented for the binary inputs: Terminals, housing type, width and color match the overall design, supported by a clear direct operating level with status LEDs on the front of the device.

Direct operation via the high-quality membrane keypad enables simulation of the input states already during commissioning, without operating devices or sensors being physically connected. On the wide-range inputs, the separate earth connections per channel ensure maximum flexibility of use for the installer. Different voltage potentials can be switched. In addition to applications such as switching and dimming lights or controlling shutters, the devices also support sophisticated tasks such as colored light control or impulse counting.
siemens.com/knx

Highlights
- Maintenance-free terminals for the reduction of the installation time
- Clear, intuitive direct operating level with status display
- Wide-range inputs (N 263) for voltage signals from 10 ... 230 V with separate earth connection per channel.
- Extensive operating and control functions as an interface to KNX systems.
- Detection of switching and system states or counting of pulses with threshold monitoring

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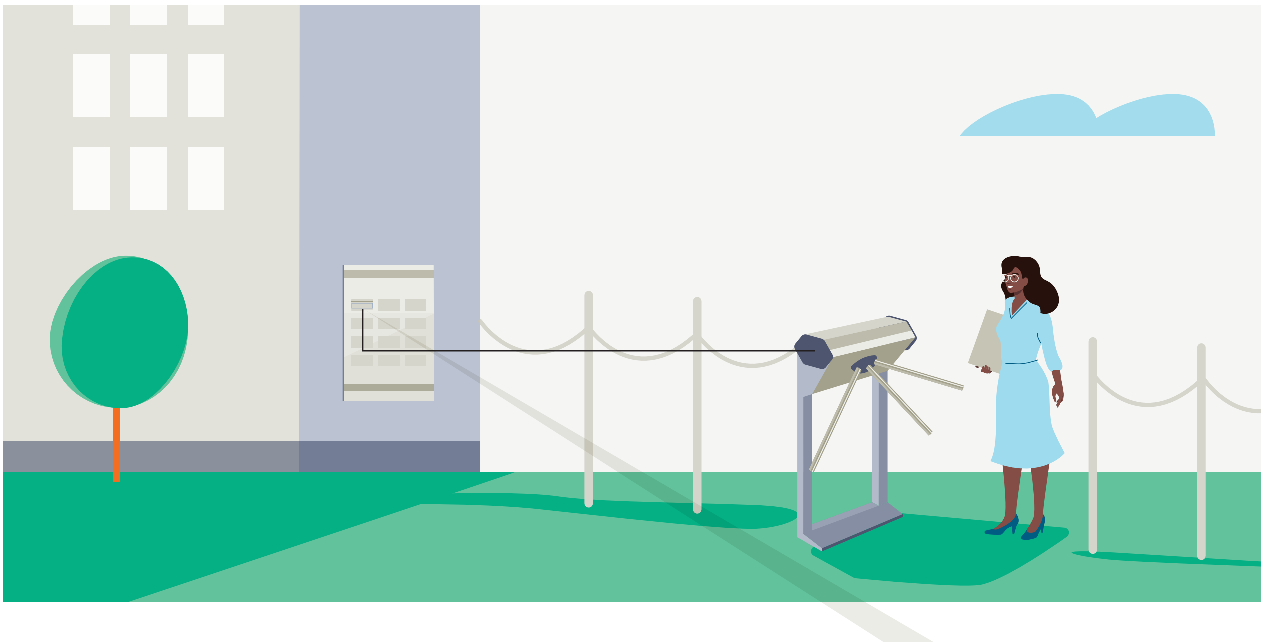
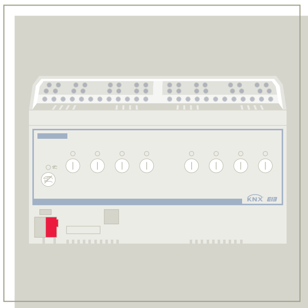
Applications with new **binary inputs**

Access control with difference counting

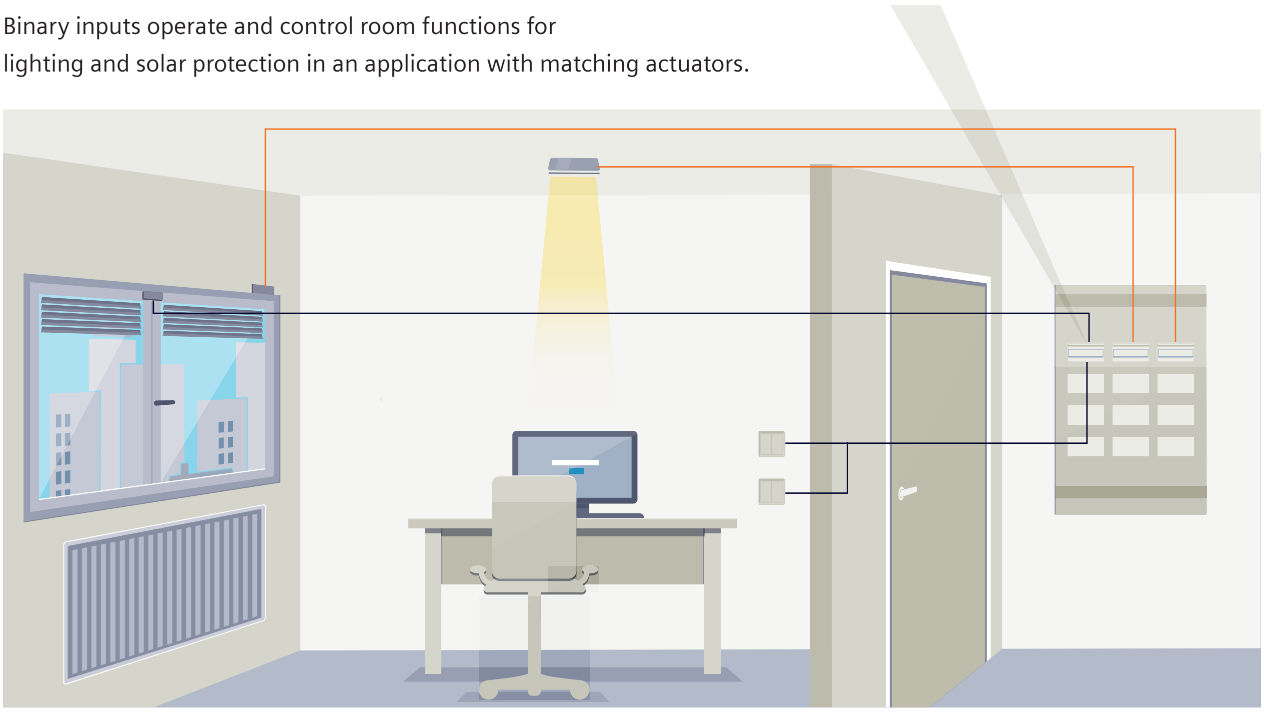
Two binary inputs can be used to implement differential pulse counting,
which makes it possible to implemented access control for a maximum number of persons.





Dimming, switching and controlling in indoor rooms

Binary inputs operate and control room functions for
lighting and solar protection in an application with matching actuators.



All important information
at a glance

	N 262DB31 – binary input, 4 x potential-free N 262DB51 – binary input, 8 x potential-free	N 263DB31 – binary input, 4 x AC/DC 10 ... 230 V N 263DB51 – binary input, 8 x AC/DC 10 ... 230 V

Technical data

N 262DB31 / N 262DB51

- Potential-free contact per channel with internally generated polling voltage
- Determining the switching state of a potential-free contact connected to an input via voltage pulses generated in the device:
  - Pulse voltage if contact is open: 20 Vss
  - Pulse current if contact is closed: 0.66 Ass
- Input signal delay until first bus telegram:
  - After the contact is closed: 60 ms
  - After the contact is opened: 60 ms
- Contact ON time: 100 ms
- Contact OFF time: 100 ms
- Debounce time (configurable): min. (= from) 30 ms, max. (= to) 300 ms
- Maximum length of connecting lines with pairs of twisted cables/NYM connecting line: 100 m

N 263DB31 / N 263DB51

- Wide-range input per channel for recording 10...230 V AC/DC signals
- At every input, it is possible to connect any phase L1, L2 or L3 or a FELV signal. It is possible to use different FIs on the inputs.
- Determination of the signal level for a voltage connected to an input AC/DC 10...230 V:
  - Signal level $U_{in} < 5$ V, logically corresponds to 0
  - Signal level $U_{in} > 10$ V, logically corresponds to 1
- Input current per channel at max. AC 265 V: 1.4 mA
- Input current per channel at max. DC 265 V: 2.75 mA
- Input signal delay:
  - Maximum input signal delay for rising input signal edge (for AC): 100 ms
  - Maximum input signal delay for rising input signal edge (for DC): 60 ms
  - Maximum input signal delay for falling input signal edge (for AC): 100 ms
  - Maximum input signal delay for falling input signal edge (for DC): 140 ms

- Operation of electronics via bus voltage
- With integrated bus coupler, with bus connection via bus terminal block
- Housing: Plastic, color RAL 7035 (light gray), N-dimension, as a rail-mounted device for installation on rail TH35 as per DIN EN 60715
- Dimensions: 4 MU (N 26xD31), 8 MU (N 26xD51),
- Protection class: IP 20

Functions and properties

- Extensive operating and control functions such as switching, dimming, solar protection control, sending different values, scene and effect control, color temperature control, forced control, group control, multiple actuation etc.
- Detection and counting pulses with threshold monitoring and difference counting for two neighboring channels
- Simultaneous execution of different functions on one channel by sending an operating command via an additional KNX telegram
- 1-button operation or 2-button operation (dimming, solar protection, send variable values, difference counting)
- Logic operations per input

Selection and order data

Product	Design	Order no.	PE (ST, SZ, M)	PKG/ VPE	PG	Price (€)
N 262DB31	Binary input, 4 x potential-free	5WG1262-1DB31				
N 262DB51	Binary input, 8 x potential-free	5WG1262-1DB51				
N 263DB31	Binary input, 4 x AC/DC 10...230 V	5WG1263-1DB31				
N 263DB51	Binary input, 8 x AC/DC 10...230 V	5WG1263-1DB51				

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Together with our customers and partners, we are creating an ecosystem that intuitively responds to human needs and helps customers reach their business goals.

An ecosystem that helps our customers grow, that promotes community progress and favors sustainable development in order to protect our planet for the next generation.

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Publisher
Siemens Schweiz AG

Smart Infrastructure
Global Headquarters
Theilerstrasse 1a
6300 Zug
Switzerland
Tel. +41 58 724 24 24

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