

**Binary Input N 260**  
**4 x 230 V AC**
**5WG1 260-1AB01**
**Product and Applications Description**


The binary input N 260 is a N-system DIN-rail mounted device with four inputs for AC 230 V switching or keying signals from separate external outside lines (L1, L2, L3) with a shared reference potential (N).

Each of the inputs can be assigned various tasks depending on the application program used, i.e. the binary input N 260 consists of the device (hardware) and its application programs (software).

Appropriate application programs are available for the different tasks the binary input N 260 can handle; e.g. sending of on/off telegrams at different edges of the input signal either event-controlled or cyclic with parametrisable repetition intervals.

With the ETS (*EIB Tool Software*) the application program is selected, its parameters and addresses are assigned appropriately, and downloaded to the binary input N 260.

**Applikationsprogramme**
**12 S4 BinCycl 240505**

- 4 binary inputs
- each input allows switching on/off or toggling at leading or trailing edge
- allows cyclic sending
- allows sending at bus voltage recurrence
- sending condition can be set

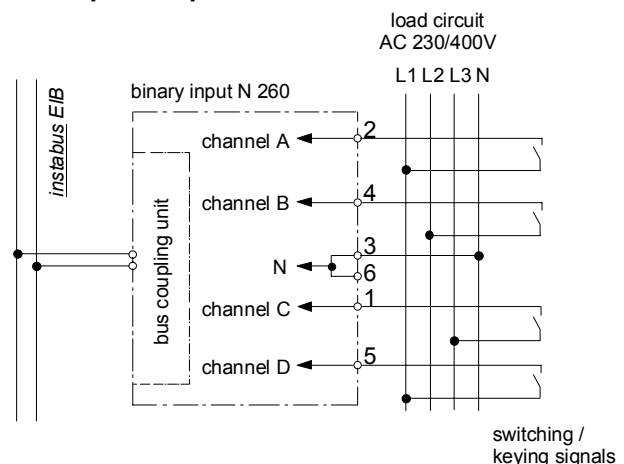
**12 S2 On-off-toggle/Dim/Shu 220703**

- 4 binary inputs
- allows configuration for dimmer/shutter or on/off/sending value
- switching at leading edge or at leading and trailing edge
- switching short/long key depression

- sending value at leading edge or at leading and trailing edge
- duration of long key depression can be set
- used type of contacts can be set

**11 S4 BinVal 240A01**

- 4 binary inputs
- each input allows to send values at leading edge and/or at leading and trailing edge
- allows cyclic sending
- allows delay
- allows interlocking

**Example of Operation**

**Installation Instructions**

- The device may be used for permanent interior installations in dry locations within distribution boards.


**WARNING**

- The device may be built into distribution boards (230/400 V) if VDE-certified devices are used exclusively and must be mounted and commissioned by an authorised electrician.
- A safety disconnection of the device must be possible. Especially if the device is connected to different phases.
- Free DIN rail areas must be covered with covers, order no. 5WG1 192-8AA01.
- The prevailing safety rules must be heeded.
- The device must not be opened. A device suspected faulty should be returned to the local Siemens office.

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## Technical Specifications

### Power supply

via bus cable

### Inputs

- 4 inputs
- input signal voltage :
  - rated value: AC 230 V
  - frequency: 47 ... 63 Hz
  - signal "0": 0 ... 170 V
  - signal "1": 198 ... 264 V
- input (signal) current at "1": usually 1 mA (at AC 230 V)
- delay of input signal:
  - at leading edge of input signal: max. 5 ms
  - at trailing edge of input signal: max. 30 ms
- duration of input signal: min. 50 ms
- input characteristic: set in parameter list according to application program
- length of input signal cable: max. 100 m unshielded
- glow lamps for illuminating push buttons:  
maximum number of glow lamps that can be connected via a bridging module 5TC5 015 to each input:
  - high luminous power (5TG7 342): max. 12 units
  - medium luminous power (5TG7 332): max. 18 units
  - low luminous power (5TG7 321): max. 60 units

### Control elements

1 learning button:  
for switching between normal operating mode and addressing mode

### Display elements

1 red LED:  
for monitoring bus voltage and displaying mode, selected with the learning button.

### Connections

- signal inputs, physical:  
strip insulation for 9 ... 10 mm  
permissible conductor types/cross sections:
  - 0,5 ... 2,5 mm<sup>2</sup> single core or flexible conductor, 8 mm ultrasonically compacted
  - 0,5 ... 2,5 mm<sup>2</sup> flexible conductor with terminal pin, crimped on gas tight
  - 0,5 ... 1,5 mm<sup>2</sup> flexible conductor with connector sleeve
  - 1,0 and 1,5 mm<sup>2</sup> plain flexible conductor



## WARNING

When looping through the shared N-conductor (connection blocks 3 and 6), take care that the maximum connection current of 2 A (as governed by the maximum permissible printed conductor load) is not exceeded!

- bus line, pressure contacts on data rail

### Physical specifications

- housing: plastic
- N-system DIN-rail mounted device, width: 2 SUs (1SU = 18mm)
- weight: approx. 150 g
- fire load: approx. 2250 kJ ± 10 %
- installation: rapid mounting on DIN EN 50022-35 x 7,5 rail

### Electrical safety

- fouling class (according to IEC 664-1): 2
- protection (according to EN 60529): IP 20
- overvoltage class (according to IEC 664-1): III
- bus: safety extra low voltage SELV DC 24 V
- the device complies with EN 50090-2-2 and EN 60669-2-1

### Reliability

rate of failure: 612 fit at 40 °C

### Electromagnetic compatibility

complies with  
EN 50081-1, EN 50082-2 and EN 50090-2-2

### Environmental specifications

- climatic conditions: EN 50090-2-2
- ambient temperature operating: - 5 ... + 45 °C
- ambient temperature non-op.: - 25 ... + 70 °C
- relative humidity (non-condensing): 5 % to 93 %

### Certification

EIB certificate

### CE norm

complies with the EMC regulations (residential and functional buildings), and low voltage regulations

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## Location and Function of the Display and Operator Elements

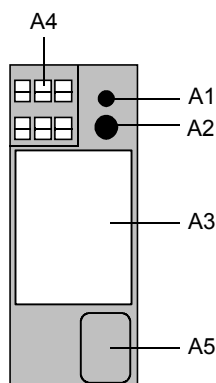


Figure 1: Location of the display and operator elements

- A1 LED for indicating normal operating mode (LED off) and addressing mode (LED on); upon receiving the physical address the device automatically returns to normal operating mode
- A2 Learning button for switching between normal operating mode and addressing mode for receiving the physical address
- A3 Type plate
- A4 Screwless plug-in terminals for connecting input circuits
- A5 Label for noting the physical address

## Mounting and Wiring

### General description

The N-system DIN-rail device (2 SUs) can be installed to N-system distribution boards, surface or flush mounted, or to any DIN-rail EN 50022-35 x 7,5 available that has a data rail installed.

The connection to the bus line is established by clicking the device onto the DIN-rail (with a data rail installed). Take care that the type plates of all devices on a DIN-rail can be read in the same direction, guaranteeing the devices are polarised correctly.

### Mounting DIN-rail devices (Figure 2)

- Slide the device (B1) onto the DIN-rail (B2) and
- swivel back the device until the slide clicks into place audibly.

### Dismounting DIN-rail devices (Figure 2)

- Remove all connected wires,
- press down the slide (C3) with a screw-driver and
- swivel the device (C1) from the DIN-rail (C2).

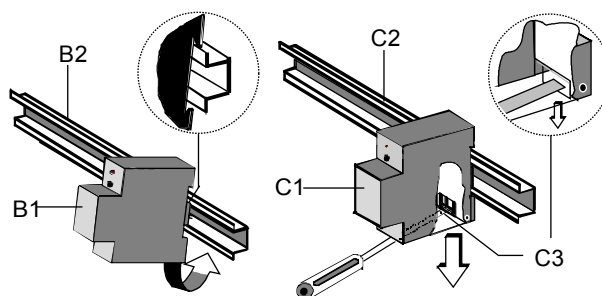


Figure 2: Mounting and dismounting a DIN-rail device

### Connecting input circuits (Figure 3)

- The load circuits are connected via screwless plug-in terminals (D1).
- Remove approx. 9 to 10 mm of insulation from the wire (D1.1) and plug it into the terminal (D1).

### Conductor cross sections:

- signal inputs, physical:
  - strip insulation for 9 ... 10 mm
  - permissible conductor types/cross sections:
    - 0,5 ... 2,5 mm<sup>2</sup> single core or flexible conductor, 8 mm ultrasonically compacted
    - 0,5 ... 2,5 mm<sup>2</sup> flexible conductor with terminal pin, crimped on gas tight
    - 0,5 ... 1,5 mm<sup>2</sup> flexible conductor with connector sleeve
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### Disconnect input circuits (Figure 3)

- Press the terminal lock (E1.2) with a screw-driver and
- remove the wire (E1.1) from the terminal (E1).

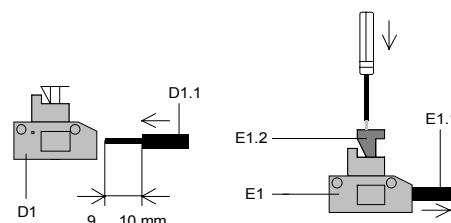


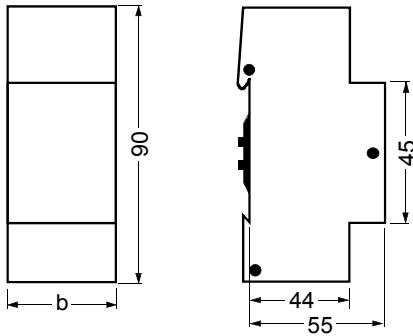
Figure 3: Connecting and disconnecting wires

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## Dimensions Diagram

Dimensions in mm



b = 2 SU

1 Spacer unit (SU) = 18mm

## Notes