

### Product and Applications Description

The binary output N 561 is a N-system DIN-rail mounted device. Via its four outputs (NO) it can switch four separate groups of electric devices.

Each of the outputs (four bistable relays) can be assigned various tasks depending on the application program used, i.e. the binary output N 561 consists of the device (hardware) and its application programs (software).

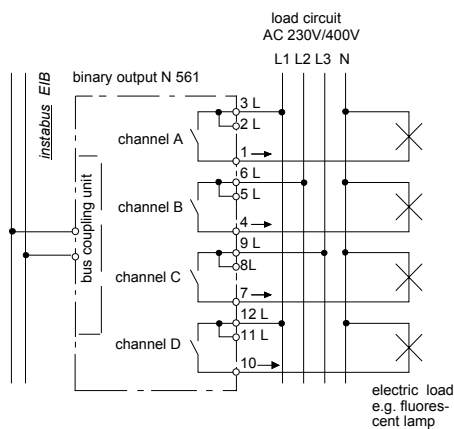
Appropriate application programs are available for the different tasks the binary output N 561 can handle; e.g. for non-delayed on/off switching.

With the ETS (EIB Tool Software) the application program is selected, its parameters and addresses are assigned appropriately, and downloaded to the binary output N 561.

### Additional Informations

<http://www.siemens.de/gamma>

### Example of Operation



### Technical Specifications

**Power supply**  
via bus line

#### Outputs

- number: 4 outputs (volt free contacts)
- rated voltage: AC 230 V, 47 ... 63 Hz
- rated current: 10 A resistive load
- switching current at AC 230 V:  
0,01 ... 10 A resistive load
- switching current at DC 24 V:  
- 10 A resistive load,  
- 4 A inductive load (L/R = 7 ms)
- switching characteristic: set in parameter list according to application program

#### Switching power at AC 230 V

- at incandescent lamp load: max. 1000 W
- at fluorescent lamp (FL) load:
  - uncorrected FL,  $\cos \varphi = 0,5$ : max. 500 W
  - parallel corrected FL,  $\cos \varphi = 1$  (at Ctot  $\leq 14 \mu\text{F}$ ):  
2 x 58 W or 3 x 36 W or 6 x 18 W
  - twin-lamp circuit,  $\cos \varphi = 1$ : max. 1000 W
  - Osram ECG for 58 W FL: max. 10 units
  - Osram ECG for 36 W FL: max. 15 units
  - Osram ECG for 18 W FL: max. 20 units

#### Connections

- load circuit, 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
- load circuit, electrical:
  - plain flexible conductor, min. 1 mm<sup>2</sup>:  
current carrying capacity max. 6 A
  - all other conductors, min. 1,5 mm<sup>2</sup>:  
current carrying capacity max. 10 A
  - the load circuits must be protected with a 10 A circuit breaker A or B characteristic

### WARNING

When looping through the L-conductor (connection blocks 2 and 3, 5 and 6, 8 and 9, 11 and 12), take care that the maximum connection current of 10 A (as governed by the maximum permissible printed conductor load) is not exceeded!

- bus line:
  - pressure contacts on data rail

#### Physical specifications

- N-system DIN-rail mounted device,  
width 3 SUs (1SU = 18mm)
- weight: approx. 220 g

#### Electrical safety

- protection (according to EN 60529): IP 20

#### Environmental specifications

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

### Location and Function of the Display and Operator Elements

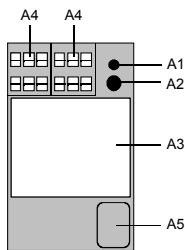


Figure 1: Location of the display and operator elements

- 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 load circuits
- A5 Label for noting the physical address

### Mounting and Wiring

- The device may be used for permanent interior installations in dry locations within distribution boards or small casings with DIN rail EN 60715-TH35-7,5

### WARNING

- The device may be built into distribution boards (230/400 V) together with appropriate VDE-devices.
- The device 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 with sticked-in data rails must be covered with covers, order no. 5WG1 192-8AA01.
- The prevailing safety rules must be heeded.
- The device must not be opened.
- For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered

### General Notes

- Any faulty devices should be returned to the local Siemens office.
- If you have further questions about the product, please contact our Technical Support:

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+49 (0) 180 50 50-223  
[adsupport@siemens.com](mailto:adsupport@siemens.com)