

Product and Applications Description



The presence simulation device N 345 is a N-system, DIN rail mounted device equipped for recording switching, dimming and shutter processes to designated channels (up to 32) and reproducing them in the same sequence. Approx. 5000 processes can be recorded during a maximum period of 4 weeks. The recording of telegrams takes place on a weekly cycle so that it jumps back by 1...4 weeks at the start of the presence simulation and then the sequence of recorded telegrams begins.

A prerequisite for using the N 345 is the presence of a time and date generator on the EIB (e.g. order no. 5WG1 350-1EB01 or 5WG1 372-5EY02) which sends the time and date at cyclic intervals. If the presence simulation device should take into account during the simulation whether the recorded day was a working day or a non-working day (e.g. Sunday or Bank Holiday), it must receive this information from another device (e.g. from event module N 341, order no. 5WG1 341 1AB01). This information is not absolutely necessary for the function of the presence simulation device.

Application Programs

01 07 Presence Simulation 800D05

- recording switching, dimming and shutter events during a defined period
- reproducing the recorded events in the same sequence

Example of Application

The presence simulation device N 345 simulates the presence of the occupier of a building during his absence by switching, dimming and shutter processes.

This module can record the configured switching events to designated group addresses during a defined interval and trigger them again in the same order during periods of absence.

Installation Instructions

- 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 must be mounted and commissioned by an authorised electrician.
- Unoccupied DIN rail sections must be covered with covers, order no. 5WG1 192-8AA01.
- The prevailing safety rules must be heeded.
- The device must not be opened.
- For the planning and construction of electrical installations, the relevant guidelines, regulations and standards of the respective country are to be considered.

Technical Specifications

Power supply
via bus line

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

Display elements
1 red LED:
for monitoring bus voltage and for displaying normal mode/addressing mode

Connections
bus line, pressure contacts on data rail

Physical specifications

- housing: plastic
- N-system, DIN rail mounted device, width: 1 SU (1 spacer unit = 18 mm)
- weight: approx. 100 g
- fire load: approx. 1150 kJ ± 10 %
- installation: snap-on fixing onto DIN rail according to EN 60715-TH35-7.5

Electrical safety

- degree of pollution (according to IEC 60664-1): 2
- protection (according to EN 60529): IP 20
- protection class (according to IEC 1140): III
- overvoltage class (according to IEC 60664-1): III
- bus: safety extra low voltage SELV DC 24 V
- device complies with EN 50090-2-2 and IEC 60664-1

Electromagnetic compatibility

complies with
EN 61000-6-2, EN 61000-6-3 and EN 50090-2-2

Environmental specifications

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

Markings

KNX / EIB

CE norm

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

Location and Function of the Display and Operating Elements

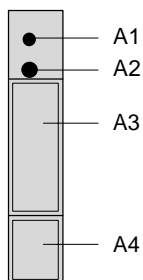


Figure 1: Location of the display and operating elements

- A1 LED for indicating normal operating mode (LED off) and addressing mode (LED on); LED is automatically extinguished after transfer of the physical address
- A2 Learning button for switching between normal operating mode and addressing mode for transferring the physical address
- A3 Type plate
- A4 Label for noting the physical address

Mounting and Wiring

General description

The N-system, DIN rail device (1 SU) can be inserted in N-system distribution boards and installed wherever DIN rails EN 50022-35 x 7.5 are available that have a data rail installed.

The connection to the bus line is established by clicking the device onto the DIN rail. Take care that the type plates of all devices on a DIN rail can be read in the same direction, thereby guaranteeing that the devices have the correct polarity.

Mounting DIN rail devices (Figure 2)

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

Dismantling DIN rail devices (Figure 2)

- Press down the slide (C3) with a screwdriver, click it into place by applying slight pressure and
- swivel the device (C1) forwards and remove from the DIN rail (C2).

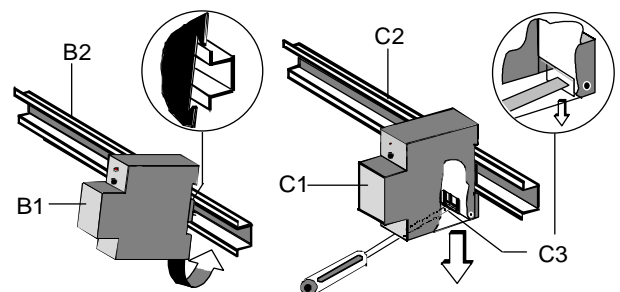


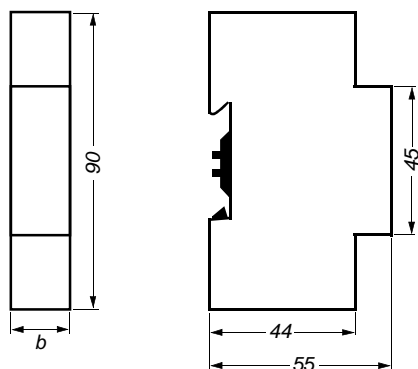
Figure 2: Mounting and dismantling a DIN rail device

Presence Simulation Device N 345

5WG1 345-1AB01

Dimension Diagram

Dimensions in mm



w = 1 SU

1 spacer unit (1 SU) = 18 mm

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:

☎ +49 (0) 180 50 50-222

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🌐 www.siemens.com/automation/support-request

Notes