

16 Channel Time Switch  
(Annual Scheduler)  
REG 373 LCP3000EZ  
Data Sheet



# product GUIDE



**SIEMENS**

Global network of innovation

# 16 Channel Time Switch (Annual Scheduler) REG 373

**5WG1 373-5EY01**



## Product and Applications Description

The 16 channel time switch REG 373 (annual scheduler), it is a DIN rail mounted device, The connection to bus is made via a bus connector.

The time switch offers:

- 500 switching times:
  - Daily instructions
  - Weekly instructions
  - Date instructions
  - Priority switching times
  - Impulse instructions
  - 1 x instructions for vacation / holidays
  - Moving holidays (like Easter)

- For each channel, additionally 9 further week programs with priority levels P1 to P9 (priority program)

- Astronomical program with sun rise and sun set times for channels 1... 4
- Time-limited manual and permanently switched circuit
- Random program can be activated for each channel

The period of a priority program is determined by input of a beginning and final date. The time switch calculates moving holidays (like Easter) automatically for each year.

## Technical Specifications

### POWER SUPPLY

Via bus line

### POWER CONSUMPTION

ca. 9 mA (at bus voltage)

### FUNCTIONAL DATA

- 16 channels
- Time base quartz precision
- 500 memory locations in EEPROM
- Shortest switching interval: 1 second/minute
- Switching accuracy: 1 second
- Shortest impulse 1 second
- Time accuracy: ±1 Sec./Tag or radio controlled
- Power reserve: Lithium battery 1 1/2 years at 20°C
- Type of Lithium battery: CR 2450
- Daily, weekly, yearly and impulse programs as automatic programs
- Manual overrides:
  - Temporary manual override
  - Permanent manual override
- Programming: Via 10-key keyboard or with PC programming set Obelisk and memory card Obelisk 64k
- Block formation:
  - Free block formation of week days and channels

### CONTROL ELEMENTS

- 1 learning button: for switching between normal operating mode and addressing mode
- 15 soft tip buttons: for setting day of week, hour, minute, time, program entry and 16 manual overrides

### DISPLAY ELEMENTS

- 1 red LED: for monitoring bus voltage and displaying mode selected with learning button
- LC Display: for display of time, day of week, day light savings mode, holiday program mode, switching status and manual control mode

### CONNECTIONS

- Bus line: screwless bus connection block 0,6... 0,8 mm Ø single core

### PHYSICAL SPECIFICATIONS

- Polymer casing
- Dimensions: DIN rail mounted device 45 x 105 x 60 mm (H x W x D), width 6 SU
- Weight: ca. 451 g
- Installation: rapid mounting on DIN EN 50022-35 x 7,5 rail

### ELECTRICAL SAFETY

- Protection (according to DIN EN 60 529): IP 20
- Overvoltage class (nach IEC 60664-1): III
- Bus: safety extra low voltage SELV 24V DC
- Device complies with: EN 50 090-2-2 and EN 60730-2-7

### ELECTROMAGNETIC COMPATIBILITY

Complies with EN 50090-2-2, EN 61000-6-2, EN 61000-6-3

### ENVIRONMENTAL SPECIFICATIONS

- Climatic conditions: EN 50090-2-2
- Ambient temperature operating: 23°F... + 113°F (-5°C... 45°C)
- Ambient temperature non-operating: -13°F... 158 °F (-25°C... 70°C)
- Rel. humidity (non-condensing): 5%... 93%

### CERTIFICATION

EIB certified

### CE NORM

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

### Accessories

Programming set Obelisk -

5WG1 810-0EY01

Obelisk 2.1 Software

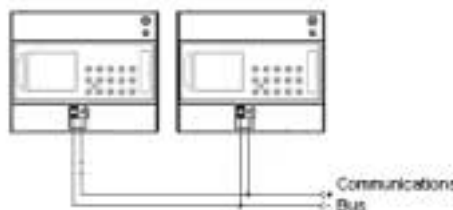
Within the period from 12 June until 31

August only the priority program is

executed and the normal weekly

program is disabled.

### Connection example



Connection of REG 373

## Installation Instructions

Despite extensive protection measures exceptionally strong electromagnetic fields can lead to the destruction of the microprocessor controlled time switch. Therefore, we recommend that you observe the following points before installation:

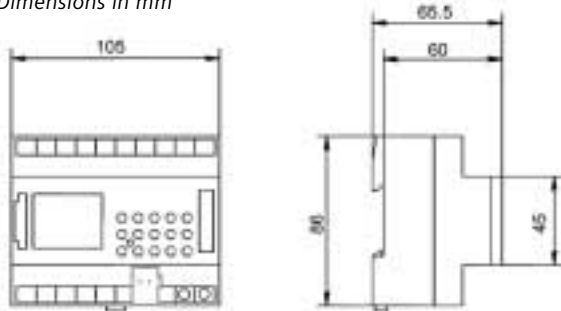
- Use separate lead for the mains voltage supply.
- Suppress inductive loads with suitable RC filters.
- Do not mount product in direct proximity to sources of interference as e.g. transformers, contactors, PCs and TV and communication equipment.
- If interference occurs, we recommend that you carry out a RESET (chapter 5.3 of Operating Instructions) before putting the device back into operation.
- Strong heat generating products on the right side of the product shorten the life time of the battery.

## WARNING

- The prevailing safety and installation rules must be heeded.
- The device must not be opened. A device suspected faulty should be returned to the local Siemens office.

## Dimension Diagram

Dimensions in mm



$b = 6 \text{ SU}$

1 Standard Unit (SU) = 17,5 mm

## Mounting and Wiring

### General description

The N-system DIN rail device) can be installed in distribution boards and any other location or enclosure with DIN EN 50022-35 x 7,5 rails. The connection to the bus line is established through a front mounted bus connector block.

### Mounting the device on a DIN rail (Figure 1)

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

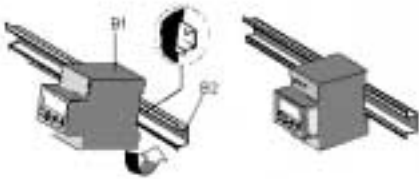


Figure 1: Mounting of DIN rail device

### Dismounting the device from the DIN rail (Figure 2)

- Press down the slide (C3) with a screwdriver and secure the slide in place by gently pressing it down.
- Swivel the device (C1) from the DIN rail (C2) to the front.

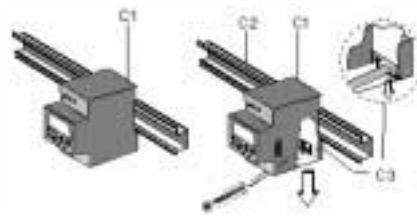


Figure 2: Dismounting of DIN rail device

### Insert battery

- Note the polarity of the Lithium battery (type: CR 2450)
- Insert the Lithium battery into the holder.
- Push the battery holder into the battery compartment.
- Press the battery holder down until it audibly clicks in place.

## Battery Changing

### Note:

Always change the battery with bus voltage applied.

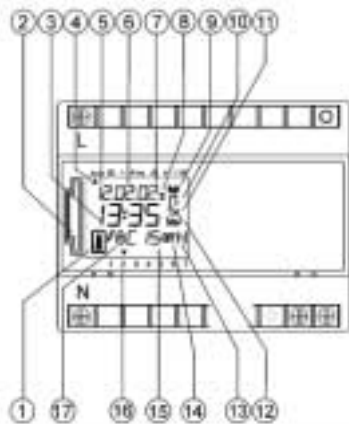
All memorized program data is maintained when the bus voltage is applied.

- Lift the battery draw with a suitable screwdriver.
- Remove battery from the holder.
- Note the polarity of the new Lithium cell.
- Insert the Lithium battery (type: CR 2450) into the holder.
- Push the battery holder into the battery compartment.
- Press the battery holder down until it audibly clicks in place.
- Dispose of Lithium battery in an environmentally friendly way.

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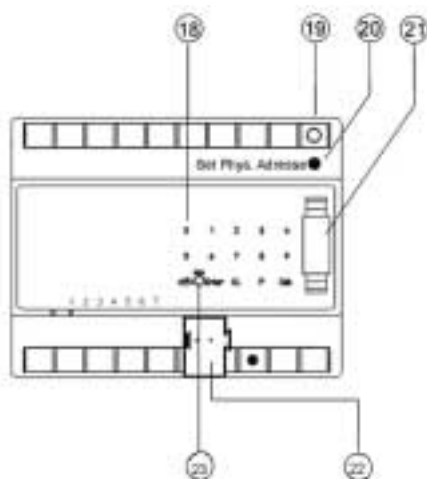
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## Operator Elements



- (1) Display data exchange with Obelisk 64k
- (2) Interface for Obelisk 64K
- (3) Hour
- (4) Cursor for menu selection
- (5) Display date day
- (6) Display month
- (7) Display year
- (8) Second symbol (displays the impulse length in sec., together with 7)
- (9) DCF77 receive display
- (10) Impulse symbol
- (11) Display 1x switching times
- (12) Display for astronomical switching times (sun rise, sun set)
- (13) Additional information for switching status display  
r = random / P 1... 9 = priority level/Manual ON (H + C\*) / Manual OFF (H + C) / Permanent ON (F+ C\*)/Permanent OFF (F + C)
- (14) Switching status
- (15) Channel number
- (16) Display weekday 1=Monday ...
- (17) Symbol of public holidays without a fixed date

Figure 3a: Location of display and operator elements



- (18) Keypad for the operation of the clock
- (19) Programming LED of the BCU
- (20) Programming button of the BCU
- (21) Battery holder
- (22) Bus connection
- (23) RESET button

Figure 3b: Location of display and operator elements

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