

Time Switch [SCN-RTC20.02]

20 functions with up to 8 independent switching times can be realised with the MDT Time Switch SCN-RTC20.02. For daily repeated tasks, such as the UP and DOWN movement of the roller shutters/blinds in the morning or evening hours, or the ON and OFF switching of the outdoor lighting. This can be done not only according to the time, but also according to the calculated sunrise and sunset for the parameterised location, due to the integrated astro switching function. The new blind function now also controls the height and position of the slats as required. Used as master, the MDT Time Switch supplies the time and date to all bus devices. As slave it receives the time and date from a time server, for example, via an IP interface (SCN-IP000.03). In case of Internet failure, the MDT Time Switch can automatically switch to master mode. The large active colour display allows editing of the switching times and manual operation on the device.



Astro switching function

The astro switching function calculates the current sunrise and sunset by means of location, time and date. In addition to these, dawn and dusk can also be used as trigger for a function. These calculated values can be individually adjusted via ETS if required. The astro switching function can be linked to further conditions such as "time shift", "latest at" or "not earlier than".

Extra channel for Day/Night object

There is an extra channel for the day/night switching. The function is already defined here, only the polarity for "day" and "night" can be selected. This keeps the 20 time switch channels for further automation.

Holiday function with specified time period

The holiday function executes desired actions during longer absences, for example, the room temperature is lowered, lighting scenarios are started, or unneeded circuits are completely switched off. The holiday function is activated via a 1-bit object (On/Off) or via a 1-byte object. (fixed period, for example 7 days) The status object outputs the remaining days.

20 functions managed via ETS/device

The MDT Time Switch has 20 freely configurable functions that can be managed and controlled via the ETS and/or directly on the device. Each function is assigned to a category ("light", "blind", "temperature", "other" or "central"). This results in a new clear operating concept of the time switch, consisting of the upper level with the category selection, the middle level with the selection of the function, and the lower level with the actual switching function. Each time switch function has its own locking object.

Automatic public holiday calculation

The automatic public holiday calculation can be individually adjusted for all countries. For Germany and Austria, the public holidays of all federal states are preconfigured. Further individual dates can be added. The "public holiday" event can actively affect the time switch.

Output objects for azimuth and elevation angle

The objects for azimuth and elevation angle can be used, for example, in visualisations.

Catch up of switching times

The catching up of the switching times on restart, time change and unlocking can be set separately for each channel.

Display lock with PIN code

The MDT Time Switch has a display lock with a 4-digit PIN code. This can be used to protect the time switch against unauthorised operation. The PIN code must be entered as soon as the time switch is in standby or the device lock has been activated via the display.

Logic function

A total of 8 logic functions with up to 4 inputs each are available. Possible logics are AND, OR and XOR. If the conditions are met, 1-bit or 1-byte values can be sent at the output or scenes can be called up.

Updateable via DCA App

If necessary, the Time Switch can be updated via the MDT Update Tool (DCA). The download is available free of charge at www.mdt.de and www.knx.org.

Long Frame Support

The MDT Time Switch supports "long frames" (longer telegrams). These contain more user data per telegram, which significantly reduces the programming time of the actuators with the ETS.