



## DATA SHEET

### timers

#### DTSW Astro 1

electronic clocks with sunrise and sunset times.

Article number 09800037



[Internetlink](#)

### Function

Time switches are electronic or electromagnetic clocks that switch a contact on or off at set times. They are suitable as an aid for energy saving measures, such as switching off pumps or hot-water heaters. The DTSW Astro 1 is a digital time switch with astronomical synchronisation that has been developed for the control of electrical systems that require solar reference parameters, especially sunrise and sunset times at a specific location on each day of the year. It can carry out specific actions at a specific time of day and switch on or off when the sun rises or sets. A correction value can be specified for channels C1 and C2 for the astronomical processes. The timer switch also has a range of additional functions such as automatic daylight saving adjustment, four holiday periods and adjustable screen brightness. The menus can be displayed in multiple languages and a schedule can be viewed on the display, which represents the plan for the current day. The device has two independent, voltage-free circuits that allow for up to 40 actions to be programmed for channel 1 and/or channel 2.

### Features

menu-guided programming, universal Time programmes, like for example sunrise, sunset, hourly program, daily program, weekly program, holiday program, 40 Program memory, very high power reserve (48 h without battery and power supply, 10 years with battery), 2 CO, 16 A / 250 V AC, Operating voltage: 230 V AC, compact dimensions

### Mounting

quick fastening to mounting rail, any installation position

### Applications

Time switches for time linking of any electrical consumers in private, commercial or industrial applications.

### Notes

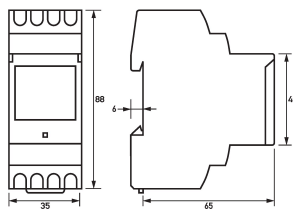
This device contains a battery that must be removed before disposing of the device and disposed of separately in suitable collection bins.

### Technical Data

Technical Data	DTSW Astro 1
Series	DTSW Astro 1
Time programmes	sunrise, sunset, hourly program, daily program, weekly program, holiday program
Time switch, number of memory slots	40
Accuracy rate range	-1 s/Tag ... 1 s/Tag (at 23 °C )
Power reserve	48 h
power reserve with battery	87600 h
Switching operation type	off, on
Switching interval	1 min ... 1 w
Number of (n.o, n.c.,change-over)	0 0 2
	Supply voltage (battery, mains voltage)
Operating voltage (AC)	230 V
Operating frequency	50 Hz ... 60 Hz
Internal consumption	max. 1.3 W
	Display menu, status output, time
Type	LCD display (alphanumeric)

Technical Data	DTSW Astro 1
	load circuit
Specification	relays
Rated voltage (AC)	250 V
Rated frequency	50 Hz ... 60 Hz
max. Rated power energy saving lamp	600 VA
max. rated power glow lamps	3000 VA
max. rated power HV halogen lamps	3000 VA
max. Rated power low-voltage halogen lamp	2000 VA
max. Rated power fluorescent lamp compensated	1200 VA
max. Rated power fluorescent lamp not compensated	1200 VA
max. Rated power LED	600 VA
Clamping area	max. 4 mm <sup>2</sup>
	General data
Operating noise	little switching noise
Operating position	optional
Storage temperature	-20 °C ... 60 °C
Ambient temperature	-10 °C ... 45 °C
Housing type	distribution board housing
Mounting type	Mounting rail (35 mm)
Housing material	polycarbonate (PC)
Protection class	IP20
sealable	true
Width	35 mm
Height	88 mm
Depth	65 mm
Installation depth	60 mm
Width (modules)	2
Design requirements/Standards	EN 60529, EN 60335-1
Protection class according to EN 60335	II

**Dimensions**



*Dimensional drawing Group view*