

DTS

Digital time switches with weekly / yearly program



Types

DTS1 3.5 W
DTS2 5 W

Features

- It serves to control various types of appliances depending on real time with the possibility of daily, weekly, monthly and yearly programs
- Switching: according to program (AUTO)/permanently manually (MAN) / random (☒)
- Choice of 1-channel or 2-channel design, each channel is adjustable individually
- Sealable transparent front panel cover, easy control with 4 buttons
- Cyclic/pulse output option
- Real time backup - up to 3 years using built-in battery
- Automatic summer/winter time transition (can be switched off in settings)
- Supply voltage is divided into two types: AC 230 V or AC / DC 12 – 240 V

Standards

- EN 61812-1

DTS characteristics

Technical data		DTS1	DTS2
Supply terminals		A1 - A2	
Voltage range	UNI	AC / DC 12 – 240 V (AC 50 - 60 Hz)	
Burden (max)		AC 0.5 – 2 VA / DC 0.4 – 2 W	
Voltage range	230	AC 230 V / 50 - 60 Hz	
Burden		AC max. 14 VA / 2 W	
Max. dissipated power (Un + terminals)		3.5 W	5 W
Supply voltage tolerance		-15 %; +10 %	
Back-up supply		yes	
Summer / winter time		automatic	
Output			
Contact type		1× changeover / SPDT (AgSnO ₂)	2× changeover / SPDT (AgSnO ₂)
Current rating		16 A / AC1; 1 HP 240 VAC, 1/2 HP 20 VAC; PD. B300	
Breaking capacity		4000 VA / AC1, 384 W / DC	
Inrush current		30 A / < 3 s	
Switching voltage		250 V AC1 / 24 V DC	
Output indication		red LED	
Mechanical life		30.000.000 ops.	
Electrical life (AC1)		100.000 ops.	
Time circuit			
Power back-up		up to 3 years	
Accuracy		max. ± 1s / day at 23 °C (73.4 °F)	
Minimum interval		1 min	
Data stored for		min. 10 years	
Cyclic output		1 – 99 s	
Pulse output		1 – 99 s	
Program circuit			
Number of memory places		100	
Program		daily, weekly, monthly, yearly	
Data readout		LCD display, with back light	
Other information			
Operating temperature		-20 .. +55 °C (-4 .. 131 °F)	
Storage temperature		-30 .. +70 °C (-22 .. 158 °F)	
Dielectric strength		AC 4 kV (supply - output)	
Operating position		any	
Mounting		DIN rail EN 60715	
Protection degree		IP10 clips, IP40 from front panel	
Overvoltage category		III.	
Pollution degree		2	
Cross-wire section – solid/stranded with ferrule (mm²)		max. 2×2.5 or 1×4 / max. 1×2.5 or 2×1.5 (AWG 12)	
Dimensions		90 × 35 × 64 mm (3.5" × 1.4" × 2.5")	
Weight		(UNI) – 117 g (4.13 oz), (230) – 115 g (4.06 oz)	(UNI) – 132 g (4.7 oz), (230) – 128 g (4.5 oz)
Standards		(230) – 115 g (4.06 oz) (230) – 128 g (4.5 oz)	

Functions

DTS2

Supply terminals (A1)

Display

Reset

Sealing spot

Supply terminals (A2)

Output - channel 1 (16-15-18)

Transparent cover

Controlling buttons

Output - channel 2 (26-25-28)
*only DTS2

Screen elements description

The choice of switching mode

Indication (1st channel)

Output ON/OFF

Random switching mode

Manual switching mode

Channel 1 (bargraph)

Shows the day in the week

Indication of the pulse/
cyclic output

Indication (1nd channel)

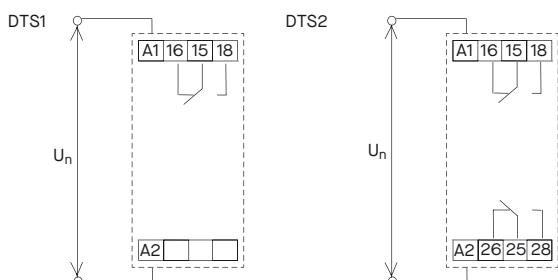
AM/PM

Shows summer/
winter mode

Indication of switching
hour of the day

Channel 2 (bargraph)

Connection



Wiring

