

## Digital time switches - TSC series

- ▶ Front panel or wall mounting
- ▶ Mounting aperture 68 x 68mm
- ▶ Width 72mm
- ▶ 2 channels
- ▶ ON, OFF or impulse function
- ▶ Permanently ON/OFF
- ▶ Manual override
- ▶ Daily and weekly program
- ▶ Unrestricted block-programming
- ▶ Automatic summertime change over
- ▶ Holiday program
- ▶ 30 memory locations



## Technical data

### 1. Functions

AUTO	Auto ON/OFF	
I	Impuls	fixed, 1s
P	Permanently ON/OFF	
mS	Manual override	

### 2. Indicators

LC-display, numeral height 7.5mm

### 3. Time base

Crystal-controlled  
 Power reserve: >6 years  
 Crystal accuracy: ±1.5s / day

### 4. Mechanical design

Self-extinguishing plastic housing, IP rating IP40,  
 Class of protection II  
 Front panel mounting (aperture 68 x 68mm) or  
 wall mounting (terminal cover and retaining clip included)  
 Shockproof terminal connection according to VBG 4,  
 IP rating IP20  
 Initial torque: max. 4Nm  
 Terminal capacity:  
 1 x 1.5 to 10mm<sup>2</sup> without multicore cable end  
 2 x 0.8 to 2.5mm<sup>2</sup> without multicore cable end  
 1 x 1.0 to 6mm<sup>2</sup> flexible with multicore cable end  
 2 x 0.8 to 2.5mm<sup>2</sup> flexible with multicore cable end

### 5. Input circuit

Supply voltage:		
24V AC	terminals 4-5	(TSC44.22 24VAC)
230V AC	terminals 4-5	(TSC44.22 230VAC)
Tolerance:		
24V AC	±10%	(TSC44.22 24VAC)
230V AC	±10%	(TSC44.22 230VAC)
Rated frequency: 50 to 60Hz		
Rated consumption:		
24V AC	approx. 1.3VA	(TSC44.22 24VAC)
230V AC	approx. 1.5VA	(TSC44.22 230VAC)

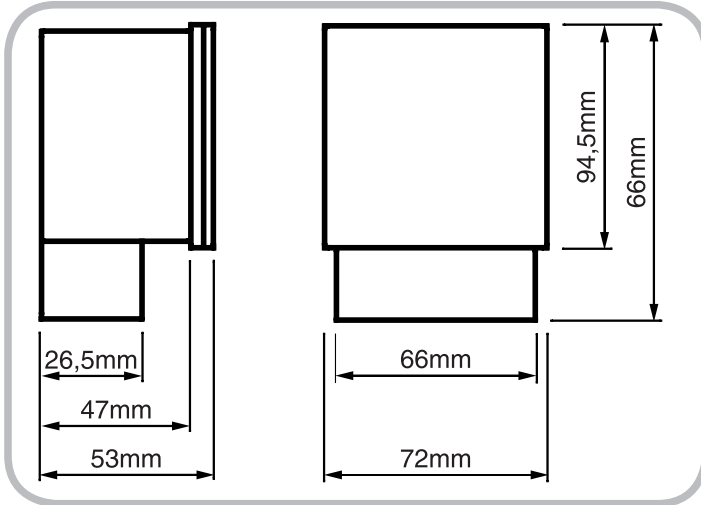
### 6. Output circuit

1 potential free change over and  
 1 potential free normally open contact  
 Switching capacity: 4000VA (16A / 250V AC at  $\cos\varphi=1$ )  
 Shortest interval: 1min (resp. 1s for impulse)

### 7. Ambient conditions

Ambient temperature: -5 to +50°C  
 Storage temperature: -5 to +50°C  
 Transport temperature: -5 to +50°C  
 Relative humidity: <90%

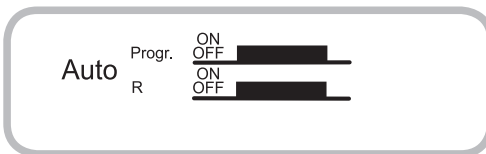
## Dimensions



## Functions

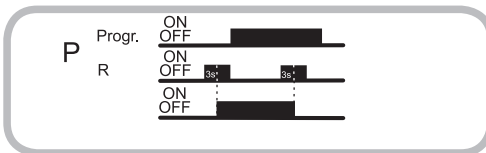
### Auto ON/OFF

The output relay changes its state according to the control signals of the program.



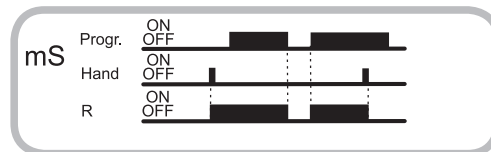
### Permanently ON/OFF

The output relay remains in the selected position and is not influenced by the control signals of the program.



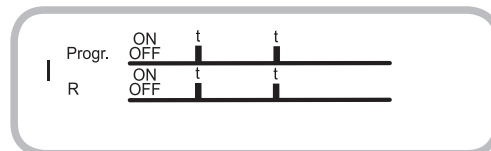
### Manual override

This function forces the output relay to switch into the position given for the next program step instantaneously (even before the interval given for the actual program step has expired). The relay remains in this position until the next control signal of the program occurs.



### Impulse

If an impulse is set at a given time the output relay switches into on-position for the fixed time period (1s).



## Connections

