Digital time switches - DIN-Rail mounting TSC98

- ☛ Functions ON/OFF IMPULS, MANUAL
- ☛ Daily-, weekly- and yearly program
- ☛ Automatic summertime change over
- ☛ Unrestricted block-programming
- ☛ 102 memory locations
- ☛ DCF77 signal control optional
- ☛ Sealable
- ☛ 2 or 4 change-over contacts
- ☛ Width 71,5mm
- ☛ Installation design

☛ Technical data

☛ 1. Functions
Automatic ON
Automatic OFF
Automatic pulse   pulse length settable from 1 to 59s
Permanently ON/OFF
Manual override

☛ 2. Indicators
LC-Display

☛ 3. Time base
Crystal- or DCF77-signal control
Power reserve: >10 years
Crystal accuracy: ±1.5s / day

☛ 4. Mechanical design
Self-extinguishing plastic housing, IP rating IP40
Mounted on DIN-Rail TS 35 according to EN 50022 or wall mounting
Shockproof terminal connection according to VBG 4
(PZ1 required), IP rating IP20
Tightening torque: max. 4Nm
Terminal capacity:
      1 x 1.5mm² to 10mm² without multicore cable end
      2 x 0.8mm² to 2.5mm² without multicore cable end
      1 x 1.0mm² to 6mm² flexible with multicore cable end
      2 x 0.8mm² to 2.5mm² flexible with multicore cable end

☛ 5. Input circuit
Supply voltage:
      230V AC   terminals 4-5
Tolerance: ±10%
Rated frequency: 50 to 60Hz
Rated consumption: approx. 2VA

☛ 6. Output circuit
2 potential free change-over contacts   TSC98.20
3 potential free change-over contacts   TSC98.40
1 potential free normally open   TSC98.40
Switching capacity per channel: 2500VA (250V AC / 10A
                                           at cosφ=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
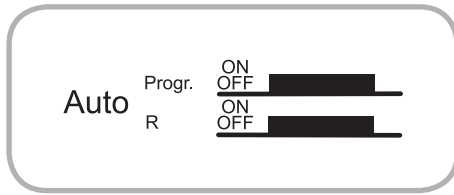Relative Humidity: <90%

☛ 8. Accessories
Antennae for DCF77 signal on request.
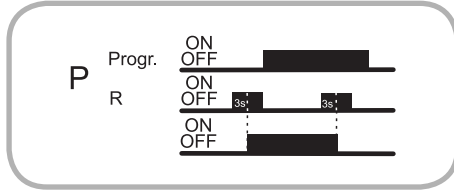It is possible to connect up to 5 TSC98 to one DCF-antennae.

☞ Functions

Auto
Setting of output relays according to the programmed parameters.

Auto — Progr. / R — ON/OFF diagram

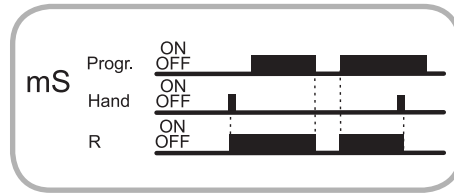### Permanently ON/OFF
With this function it is possible to fix any output relay in ON or OFF position independent to the set program parameters
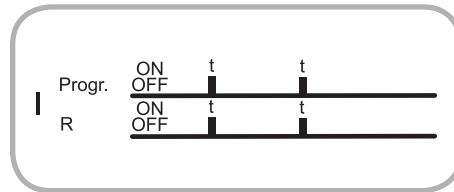
P — Progr. / R — ON/OFF diagram

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 invers control signal of the program accurs
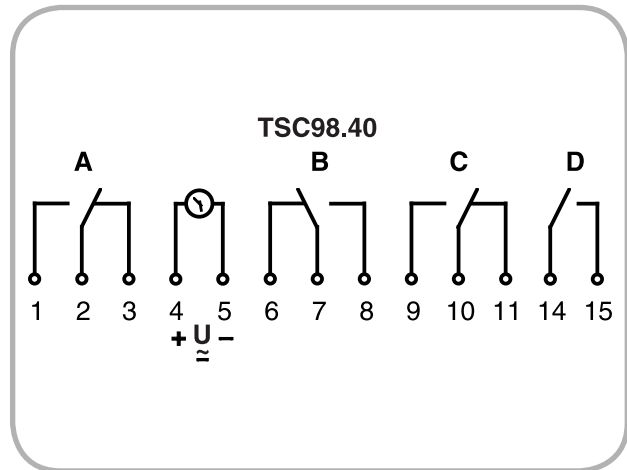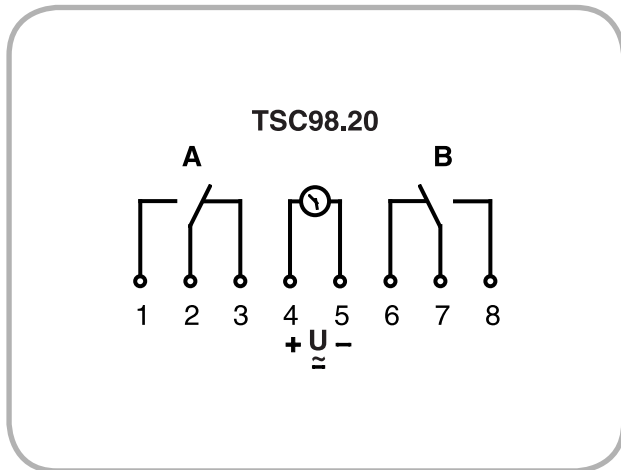
mS — Progr. / Hand / R — ON/OFF diagram

Impulse
If an impulse is set at a given time the output relay switches into on-position for the set time period.

I — Progr. / R — ON/OFF diagram

☞ Connections

TSC98.20

A   B

1 2 3 4 5 6 7 8

+ U −
≃

TSC98.40

A   B   C   D

1 2 3 4 5 6 7 8 9 10 11 14 15

+ U −
≃

☞ Dimensions

5mm   44mm
55mm
71,5mm
45mm
120mm

tele
Automation Components