

- ❑ 14 switchable time ranges
125 ms - 30 h
- ❑ 2 times independently adjustable
- ❑ 2 remote potentiometer terminals
- ❑ Two changeover contacts
- ❑ 19 supply voltages selected via tele plug-in modules



Technical Data:

Supply voltages:
(can be selected with plug-in power supply)
See plug-in mains units below

Nominal consumption:
2X: 12 ... 440 V AC / 2 VA,
24 V AC/DC / 1 VA, 36 V AC/DC / 1.5 VA,
42 V AC/DC / 1.5 VA, 48 V AC/DC / 1.7 VA,
6 ... 110 V DC / 2 W
3V: 12 ... 440 V AC / 4 VA,
24 V AC/DC / 2 VA, 36 V AC/DC / 3 VA,
42 V AC/DC / 3.5 VA, 48 V AC/DC / 4 VA,
6 ... 220 V DC / 3 W

Permissible voltage range 0.85 to 1.1 U_N
Frequency range 48-63 Hz
Duty cycle 100% IEC class 1c

Environmental conditions:
Permissible ambient temperature -25°C to +55°C
Class of application HVF to DIN 40040

Accuracy:
Repetition accuracy under constant condition
(as % of full range) $\leq 0.5\%$
Effect of voltage in the range of 0.85 to 1.1 U_N $\leq 0.5\%$
Accuracy of adjustment $\leq 5\%$
Effect of temperature $\leq 0.1\%$ / °C
Reset time ~ 100ms max.

Mechanical data/specifications:
Enclosure in self-extinguishing plastic with plug-in power supply
Type of protection IP 40
VDE 0435: Test voltage 2000 VAC
VDE 0110: Group B 380 V AC, Group C 250 V AC

Dimensions and standards:
2X: 75 x 22.5 x 98 mm (h x b x d)
3V: 75 x 35 x 109 mm (h x b x d)
X: Mounting on DIN rails to DIN 46277/3 (European standard EN 50 0222)
Connection via terminals up to 4 mm² with protection against accidental contact. Type of protection IP20 Contact protection to VDE 0106 and VBG 4
Terminal arrangement and connection markings to DIN 46 199
V: Mounting and connection via 11-pin screw or soldered plug.
Fixing via retaining clip BU 351. Pin arrangement and connection markings to IEC 67-1-18a

Output stage:
2-pole changeover
Max. switching voltage: 2X: 250 V AC 3V: 380 V AC, 250 V DC
Continuous current: 2X: max. 5A 3V: max. 8A
Switching capacity: 2X: 1000 VA 3V: 1500 VA
Contact life: 230 V AC, 5 A resistive $\geq 3 \cdot 10^6$ switching operations.
Mechanical life > 30.10⁶ switching operations.

Plug-in power supply modules for model 2X

4 power supplies NT2-...V AC/DC for alternating and direct voltage:
24 V (1 VA), 36 V (1.5 VA),
42 V (1.5 VA), 48 V (1.7 VA)

9 transformers TR2-...V AC for alternating voltage
12V, 24V, 42V, 48V, 110V, 127V,
230V, 400V, 440V

4 switched power supplies SN2-...V DC for direct voltage
residual ripple 10%
permissible voltage range in brackets
6V (4.8-7.8V), 12V (8.5-16V),
60V (40-85V), 110V (75-160V)

Plug-in power supply modules for models 3V and 4X

4 power supplies NT3-... V AC/DC for alternating and direct voltage:
24 V (2 VA), 36 V (3 VA),
42 V (3.5 VA), 48 V (4 VA)

9 transformers TR3-...V AC for alternating voltage
12V, 24V, 42V, 48V, 110V, 127V,
230V, 400V, 440V

6 switched power supplies SN3-...V DC for direct voltage
max. residual ripple 10%
permissible voltage range in brackets
6 V (5.1 - 6.6 V), 12 V (10.2 - 15 V),
60 V (40 - 85 V), 110 V (75 - 145 V)
125 V (85 - 165 V), 220 V (45 - 285 V)

Types:

I2X
I3V

Accessories:

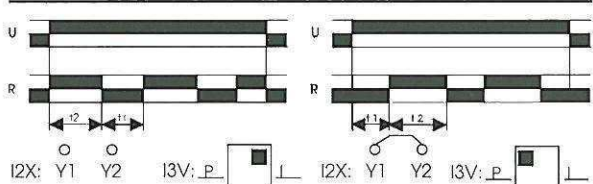
Plug-in base TVE 12
Retaining clip BU 351
Mounting plate MP

Remote potentiometer R2
Fascia surround FR 35

Ii cyclic - pulse first

Ip cyclic - pause first

Function diagram:

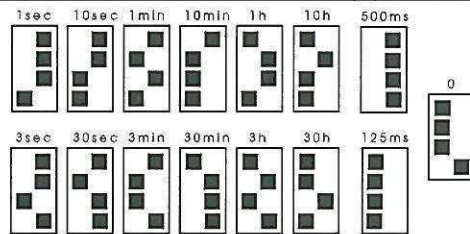


Description of function:

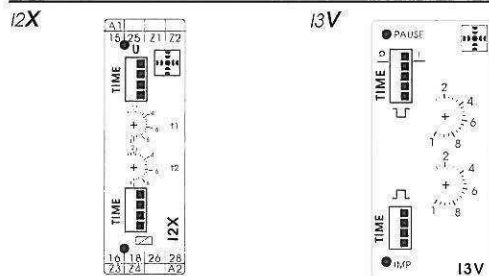
When input voltage U is applied, output relay R energises immediately and time t2 begins to run. Then output relay R returns to the off-position, and remains off during time t1. The output relay R continues to operate in the set pulse-pause ratio for as long as the input voltage to the instrument is maintained.

When input voltage U is applied, time t1 begins to run. Then the output relay R energises and remains on for time t2. The output relay R continues to operate in the set pulse-pause ratio for as long as the input voltage to the instrument is maintained.

Selection of time ranges:



Front view:



Connections:

