

- Installation design
- Width 17.5mm
- AC/DC voltage monitoring in 1-phase mains
- 1 change over contact



► Technical data

► 1. Functions

AC/DC overvoltage monitoring in 1-phase mains with adjustable threshold and fixed hysteresis

► 2. Time ranges

	Adjustment range
Start-up suppression time:	-
Tripping delay:	-

► 3. Indicators

Green LED ON:	indication of supply voltage
Yellow LED ON/OFF:	indication of relay output

► 4. Mechanical design

Self-extinguishing plastic housing, IP rating IP40
 Mounted on DIN-Rail TS 35 according to EN 50022
 Mounting position: any
 Shockproof terminal connection according to VBG 4 (PZ1 required), IP rating IP20
 Initial torque: max. 1Nm
 Terminal capacity:
 1 x 0.5 to 2.5mm² with/without multicore cable end
 1 x 4mm² without multicore cable end
 2 x 0.5 to 1.5mm² with/without multicore cable end
 2 x 2.5mm² flexible without multicore cable end

► 5. Input circuit

Supply voltage:	
24V DC	terminals F1(+)-E (=measuring voltage)
24V AC	terminals F2-E (=measuring voltage)
230V AC	terminals F3-E (=measuring voltage)
Tolerance:	
24V DC	-30% to +20%
24V AC	-30% to +20%
230V AC	-30% to +20%
Rated frequency:	48 to 63Hz
Rated consumption:	
24V AC/DC	1.5VA (1W)
230V AC	8VA (1.5W)
Duration of operation:	100%
Reset time:	<300ms
Residual ripple for DC:	10%
Drop-out voltage:	>60% of the supply voltage

► 6. Output circuit

1 potential free change over contact
 Switching capacity (distance < 5mm): 750VA (3A / 250V)
 Switching capacity (distance > 5mm): 1250VA (5A / 250V)
 Fusing: 5A fast acting
 Mechanical life: 20 x 10⁵ operations
 Electrical life: 2 x 10⁵ operations
 at 1000VA resistive load
 max. 60/min at 100VA resistive load
 max. 6/min at 1000VA resistive load (according to IEC 947-5-1)
 250V AC (according to IEC 664-1)
 Switching frequency:
 Insulation voltage: 4kV, overvoltage category III (according to IEC 664-1)
 Surge voltage:

► 7. Measuring circuit

Input:	24V DC	terminals F1(+)-E (= supply voltage)
	24V AC	terminals F2-E (=supply voltage)
	230V AC	terminals F3-E (=supply voltage)
Overload capacity:	24V DC	32V DC
	24V AC	30V AC
	230V AC	285V AC
Input resistance:	-	
Switching threshold:	80% to 120%	
Hysteresis:	fixed, approx. 10%	

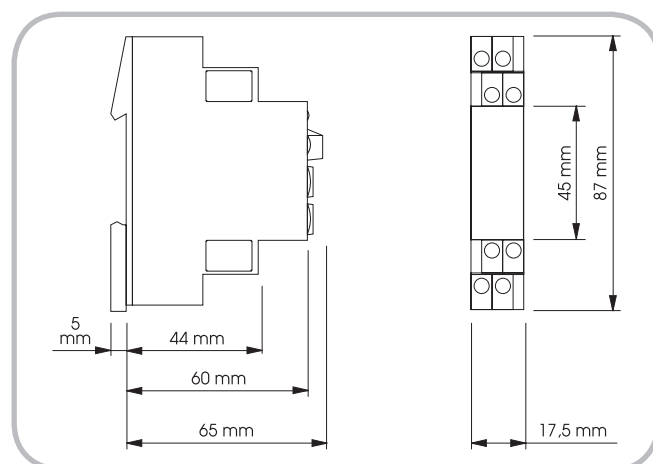
► 8. Accuracy

Base accuracy:	-
Adjustment accuracy:	≤5% (of maximum scale value)
Repetition accuracy:	≤2%
Voltage influence:	-
Temperature influence:	≤0.1% / °C

► 9. Ambient conditions

Ambient temperature:	-25 to +55°C (according to IEC 68-1)
Storage temperature:	-25 to +70°C
Transport temperature:	-25 to +70°C
Relative humidity:	15% to 85% (according to IEC 721-3-3 class 3K3)
Pollution degree:	2, if built-in 3 (according to IEC 664-1)

► 10. Dimensions

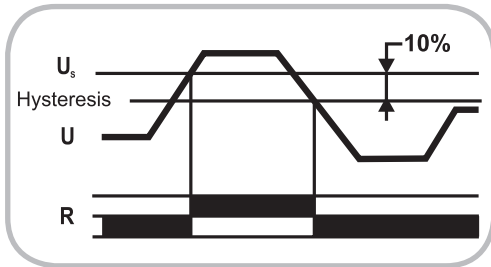


Functions

AC/DC overvoltage monitoring in 1-phase mains with adjustable threshold and fixed hysteresis

Overvoltage monitoring

The output relay R switches into on-position (yellow LED illuminated) when the measured voltage exceeds the value adjusted at the U_s -regulator. The output relay switches into off-position (yellow LED not illuminated) when the measured value for the voltage falls below the set value by more than the fixed hysteresis.



Connections

