- Industrial design
- Width 22.5mm
- Single shot leading edge
- 1 time range
- Single voltage
- 1 change over contact

Technical data

1. Functions

Ws Single shot leading edge with control contact
Wu Single shot leading edge voltage controlled

2. Time ranges

Time range	Adjustment range			
1s	100ms	1s	(P6SW 1s)	
3s	300ms	3s	(P6SW 3s)	
10s	1s	10s	(P6SW 10s)	*)
30s	3s	30s	(P6SW 30s)	
1min	6s	1min	(P6SW 1min)	
10min	1min	10min	(P6SW 10min)	
30min	3min	30min	(P6SW 30min)	
1h	6min	1h	(P6SW 1h)	

*) ... standard type, other time ranges on request

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
2 x 0.5 to 1.5mm² with/without multicore cable end
2 x 1.5mm² flexible without multicore cable end

5. Input circuit

Supply voltage:

24V AC/DC	terminals A1(+)-A2	(P6SW 24VAC/DC)	*)
42V AC/DC	terminals A1(+)-A2	(P6SW 42VAC/DC)	
48V AC/DC	terminals A1(+)-A2	(P6SW 48VAC/DC)	
110V AC	terminals A1-A2	(P6SW 110VAC)	*)
230V AC	terminals A1-A2	(P6SW 230VAC)	*)

Tolerance:

24V DC	±10%	(P6SW 24VAC/DC)
24V AC	-15% to +10%	
42V DC	±10%	(P6SW 42VAC/DC)
42V AC	-15% to +10%	
48V DC	±10%	(P6SW 48VAC/DC)
48V AC	-15% to +10%	
110V AC	-15% to +10%	(P6SW 110VAC)
230V AC	-15% to +10%	(P6SW 230VAC)

Rated frequency : 48 to 63Hz
Rated consumption:

24V AC/DC	1VA (0.6W)	(P6SW 24VAC/DC)
42V AC/DC	1.5VA (1W)	(P6SW 42VAC/DC)
48V AC/DC	1.7VA (1.2W)	(P6SW 48VAC/DC)
110V AC	4VA (1.3W)	(P6SW 110VAC)
230V AC	8VA (1.3W)	(P6SW 230VAC)

Duration of operation: 100%
Reset time: 100ms
Residual ripple for DC: 10%
Drop-out voltage: >20% of the supply voltage
*)... standard type, other supply voltages on request

6. Output circuit

1 potential free change over contact
Switching capacity (distance < 5mm): 750VA (3A / 250V AC)
Switching capacity (distance > 5mm): 1250VA (5A / 250V AC)
Fusing: 6A fast acting
Mechanical life: 10 x 10^6 operations
Electrical life: 1 x 10^5 operations at 1000VA resistive load
Switching frequency: max. 60/min at 100VA resistive load
max. 6/min at 1000VA resistive load (according to IEC 947-5-1)
Insulation voltage: 250V AC (according to IEC 664-1)
Surge voltage: 4kV, overvoltage category III (according to IEC 664-1)

7. Control contact

Connections: not potential free, terminals A1-B1
Loadable: yes, parallel load min. 1VA (0.5W)
terminals A2-B1 (not for 24, 42 and 48V AC)
Line length: max. 30m
Control pulse length: DC min. 30ms
AC min. 30ms

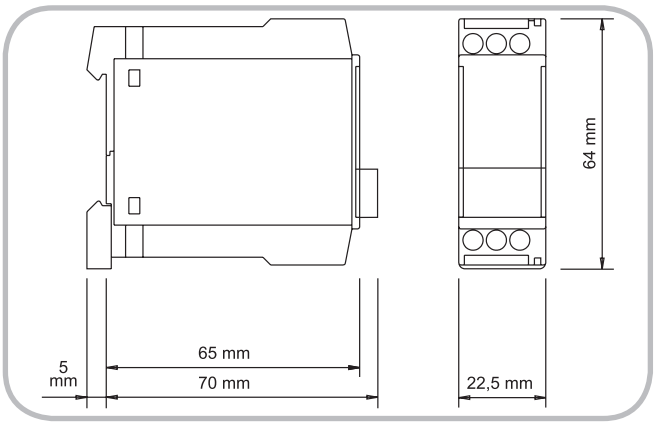
8. Accuracy

Base accuracy: ±5% (of maximum scale value)
Adjustment accuracy: ≤5% (of maximum scale value)
Repetition accuracy: <1%
Voltage influence: -
Temperature influence: ≤0.1% / °C

9. Ambient conditions

Ambient temperature: -25 to +55°C (according to IEC 68-1)
-25 to +40°C (according to UL 508)
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: 3 (according to IEC 664-1)

10. Dimensions



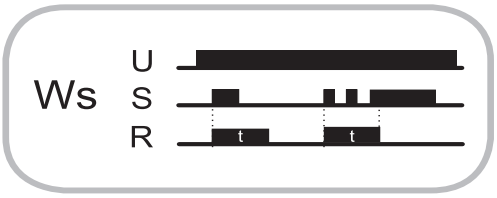
Functions

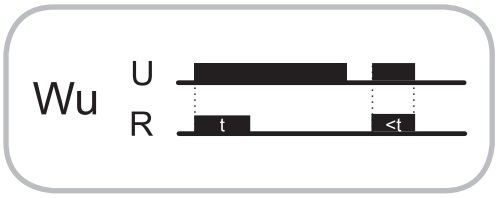
Single shot leading edge with control contact (Ws)

The supply voltage U must be constantly applied to the device (green LED illuminated).
When the control contact S is closed, the output relay R switches into on-position (yellow LED illuminated) and the set interval t begins. After the interval t has expired (green LED illuminated) the output relay switches into off-position (yellow LED not illuminated).
During the interval, the control contact can be operated any number of times.
A further cycle can only be started when the cycle run has been completed.

Single shot leading edge voltage controlled (Wu)

When the supply voltage U is applied (green LED illuminated), the output relay R switches into on-position (yellow LED illuminated) and the set interval t begins. After the interval t has expired the output relay switches into off-position (yellow LED not illuminated). This status remains until the supply voltage is interrupted.
If the supply voltage is interrupted before the interval t has expired, the output relay switches into off-position. The interval already expired is erased and is restarted when the supply voltage is next applied.
To restart the function the supply voltage must be interrupted and re-applied.





Connections