

Timing characteristics

Repeat accuracy (with constant parameters)	Conforming to IEC 1812-1		± 0.5 %
Drift	Temperature		± 0.05 % / °C
	Voltage		± 0.2 % / V
Setting accuracy at full scale	Conforming to IEC 1812-1		± 10 % at 25 °C
Minimum duration of control impulse	Typical	ms	50
Maximum reset time by de-energisation	Typical	ms	350
Immunity time to microbreaks	Typical	ms	> 10

Supply characteristics

Multivoltage supply			Depending on version, see pages 24501/4 and 24501/5
Frequency		Hz	50/60
Operating range			85...110 % Un
On-load factor			100 %
Maximum power consumption	Depending on model	--- 24 V	W 0.6
		--- 240 V	W 1.5
		~ 240 V	VA 32

Output characteristics

Output type			Solid state
Breaking capacity		A	~--- 0.7 at 20° C (0.5 A UL)
Derating		mA	5 / °C
Maximum permissible current		A	20 ≤ 10 ms
Minimum breaking current		mA	10
Leakage current		mA	< 5
Maximum switching voltage		V	~--- 250
Typical voltage drop at terminals			3-wire 4V - 2-wire 8V
Electrical life			10 ⁸ operations
Mechanical life			10 ⁸ operations
Dielectric strength conforming to IEC 664, IEC 255-5		kV	2.5 at 1 mA / 1 min

Display characteristics

State indication by 1 LED	Green		Operating status indication:  Pulsing : relay energised, no timing in progress (except Di-D and Li-L)  Flashing : timing in progress  On steady : relay energised, no timing in progress
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Input characteristics

Input type		V	Volt-free contact (no potential) Control possible by 3-wire sensor with PNP output, maximum residual voltage : 0.4 V whatever the supply voltage of the timer
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Zelio Time - timing relays

Modular relays, solid state output
width 17.5 mm

General characteristics			
Conforming to standards			IEC 1812-1, EN 50081-1/2, EN 50082-1/2, LV directives (73/23/EEC + 93/68/EEC (CE marking) + EMC (89/336/EEC + IEC 669-2-3)
Approvals			c UL us, CSA
Temperature limits	Operation	°C	- 20...+ 60
	Storage	°C	- 30...+ 60
Creepage distance and clearance	Conforming to IEC 60664-1	kV	4 kV/3
Degree of protection conforming to IEC 529	Terminal block		IP 20
	Enclosure		IP 40
	Panel-mounted		IP 50
Vibration resistance	Conforming to IEC 68-2-6		f = 10...55 Hz A = 0.35 mm
Relative humidity without condensation	Conforming to IEC 68-2-3		93 %
Electromagnetic compatibility	Immunity to electrostatic discharge, conforming to IEC 1000-4-2		Level III (Air 8 kV/Contact 6 kV)
	Immunity to electromagnetic fields, conforming to ENV 50140/204 (IEC 1000-4-3)		Level III 10 V/m : (80 MHz...1 GHz)
	Immunity to fast transients in bursts, conforming to IEC 1000-4-4		Level III (direct 2 kV / capacitive connecting clip 1 kV)
	Immunity to surges on the power supply conforming to IEC 1000-4-5		Level III (common mode 2 kV / differential mode 1 kV)
	Immunity to radio frequency interference in common mode conforming to ENV 50141 (IEC 1000-4-6)		Level III (10 V rms : 0.15...80 MHz)
	Immunity to voltage dips and breaks conforming to IEC 1000-4-11		30 % / 10 ms
			60 % / 100 ms >
	Radiated and mains conducted disturbance conforming to EN 55022 (EN 55011 Group 1)		Class B
Mounting method	Symmetrical mounting rail (EN 50022)	mm	35
Clamping capacity	Without cable end	mm ²	2 x 2.5
	With cable end	mm ²	2 x 1.5
Spring terminals, 2 terminals per connection point	Flexible cable	mm ²	1.5
	Solid cable	mm ²	2.5
Enclosure material			Self-extinguishing

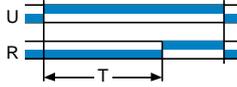
Solid state output

- Multifunction or single function
- Multi-range (7 switchable ranges)
- Multivoltage
- Solid state output: 0.7 A - 250 V (0.5 A UL)
- Screw terminals
- State indication by 1 LED

Function diagrams

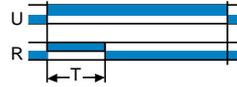
Function A

Delay on energisation



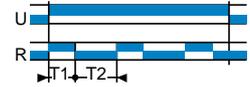
Function H

Timing on energisation
Pulse-on energisation



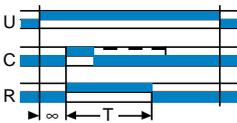
Function Li

Asymmetrical recycler
Pulse start



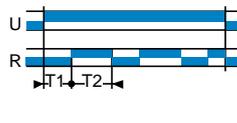
Function B

Timing on impulse, one shot



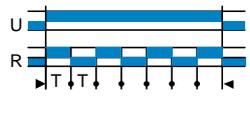
Function L

Asymmetrical recycler
Start after pause



Function Di

Symmetrical flasher, start
with output in operating
position



References

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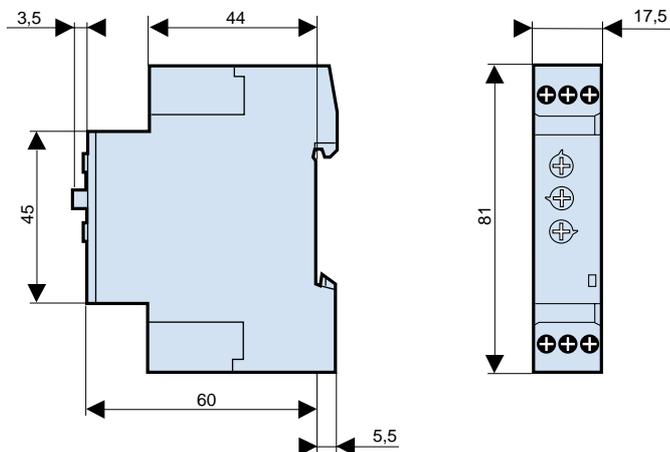
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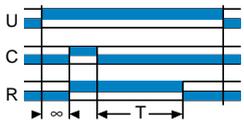
Connection	Screw terminals	●	●
Functions		Multifunction A - At - B - C - H - Ht - Di - D - Ac - Bw	Single function A
Timing ranges	7 ranges	1 s - 10 s - 1 min - 10 min - 1 h - 10 h - 100 h	
Rated current		0.7 A	0.7 A
Voltages	24...240 V ~ 50/60 Hz	RE 88 826 004	-
	24...240 V ~/DC 50/60 Hz	-	RE 88 826 014
Weight (kg)		0.060	0.060

Dimensions and connection schemes

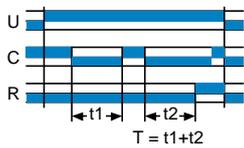
Dimensions



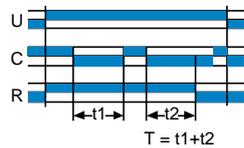
Function C
Off-delay, with control contact



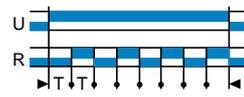
Function At
Timing on energisation with memory



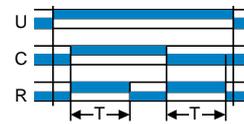
Function Ht
Delay on energisation with memory



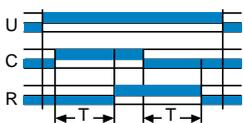
Function D
Symmetrical flasher, start with output in rest position



Function Bw
Pulse output (adjustable)



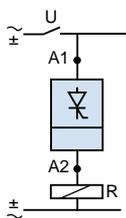
Function Ac
Timing after closing/opening of control contact



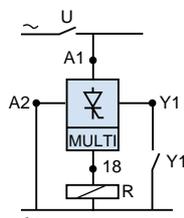
Single function	Dual function
H	Li - L
1 s - 10 s - 1 min - 10 min - 1 h - 10 h - 100 h	
0.7 A	0.7 A
RE 88 826 044	RE 88 826 054
-	-
0.060	0.060

Connection schemes

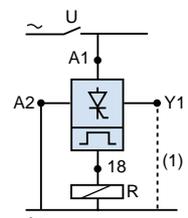
Functions A, H



Function U



Functions L, Li



(1) Link A2-Y1 for function L only.