



Main

Range of product	Zelio Time
Product or component type	Electronic timing relay
Electrical connection	Plug-in sub-base 8 pin(s)
Discrete output type	Relay
Contacts type and composition	Timed contact, AgNi (cadmium free) Instantaneous contact, AgNi (cadmium free)
Component name	RE48A
Time delay type	A1 A2 H1 H2
Time delay range	0.02...1.2 s 0.05...3 s 0.2...12 h 0.2...12 min 0.2...12 s 0.5...30 h 0.5...30 min 0.5...30 s 2...120 h 2...120 min 2...120 s 5...300 h 5...300 min 5...300 s
[Us] rated supply voltage	24...240 V AC/DC 50/60 Hz
Voltage range	0.9...1.1 Us DC 0.85...1.1 Us AC
[In] rated current	5 A

Complementary

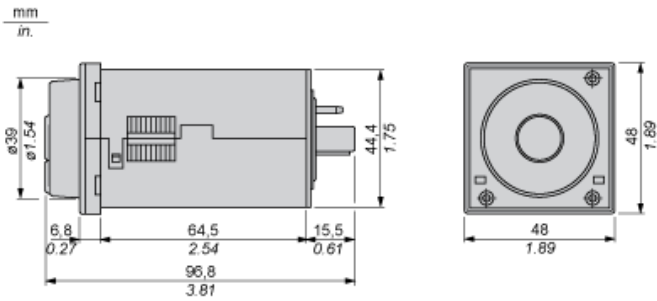
Product front plate size	48 x 48 mm
Control type	Selector switch on front panel
Housing material	Self-extinguishing
Repeat accuracy	+/- 0.2 % of the maximum setting value conforming to IEC 61812-1
Temperature drift	+/- 0.02 %/°C of the maximum setting value conforming to IEC 61812-1
Voltage drift	+/- 1 %/V of the maximum setting value 24...48 V +/- 0.2 %/V of the maximum setting value 48...240 V
Setting accuracy of time delay	+/- 5 % of full scale at 25 °C conforming to IEC 61812-1
Minimum pulse duration	20 ms
Reset time	>= 25 ms on de-energisation
Pick up duration	55 ms
On-load factor	100 %
Maximum power consumption	4.8 VA 240 V 1.1 VA 24 V
Maximum power consumption	1.7 W 240 V 0.5 W 24 V
Breaking capacity	1250 VA
Minimum switching current	100 mA
Maximum switching current	5 A
Maximum switching voltage	250 V AC/DC
Electrical durability	100000 cycles

Mechanical durability	30000000 cycles
Output voltage	240 V 1.5 A AC-15 30 V 2 A DC-13 240 V 5 A AC-12
Marking	CE
Surge withstand	2 kV (common mode) conforming to IEC 61000-4-5 level 3 1 kV (differential mode) conforming to IEC 61000-4-5 level 3
Mounting support	Base mounted: socket Panel mounted: system supplied with the product
Local signalling	LED indicator green on steady: relay energised, no timing in progress LED indicator green flashing: relay energised timing in progress 1 LED yellow output relay state
Product weight	0.14 kg

Environment

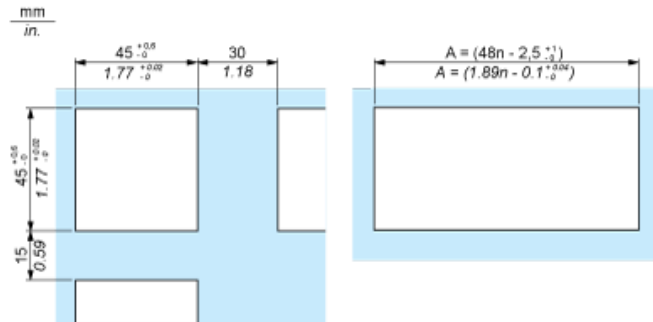
Humidity drift	+/- 0.05 %/%RH of the maximum setting value conforming to IEC 61812-1
Immunity to microbreaks	< 10 ms
Dielectric strength	1 kV 1 mA/1 minute conforming to IEC 61812-1
Protection against electric shocks	4 kV category 3 conforming to IEC 61812-1 4 kV category 3 conforming to IEC 60664-1
Standards	73/23/EEC 89/336/EEC 93/68/EEC EN 50081-1/2 EN 50082-1/2 IEC 60669-2-3 IEC 61812-1
Product certifications	CSA C-Tick CULus GL UL
Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-20...50 °C
IP degree of protection	IP50 (front face) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529
Vibration resistance	0.35 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Relative humidity	93 % without condensation conforming to IEC 60068-2-3
Resistance to electrostatic discharge	8 kV (in air) conforming to EN/IEC 61000-4-2 level 3 6 kV (in contact) conforming to EN/IEC 61000-4-2 level 3
Resistance to electromagnetic fields	10 V/m, 26 MHz to 1 GHz conforming to IEC 61000-4-3 level 3
Resistance to fast transients	4 kV, direct conforming to EN/IEC 61000-4-4 level 4 2 kV, capacitive connecting clip conforming to EN/IEC 61000-4-4 level 4
Immunity to radioelectric fields	10 V (0.15...80 MHz) conforming to EN/IEC 61000-4-6 level 3
Immunity to voltage dips	95 % / 5 s conforming to EN/IEC 61000-4-11 60 % / 100 ms conforming to EN/IEC 61000-4-11 30 % / 10 ms conforming to EN/IEC 61000-4-11
Disturbance radiated/conducted	Class B (0.15...30 MHz) conforming to EN 55022 (EN 55011 group 1)

Width 48 mm



Panel Cut-Out and Mounting

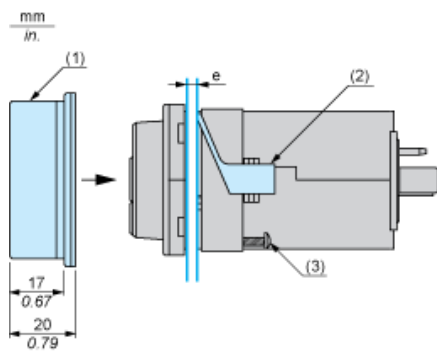
Panel Cut-Out



n Number of devices mounted side-by-side

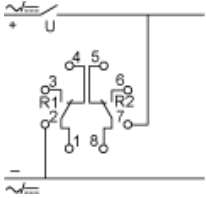
Mounting

Cover positioning and mounting



- e Panel thickness
- 1 Protective cover
- 2 Panel mounting frame
- 3 Locating screw

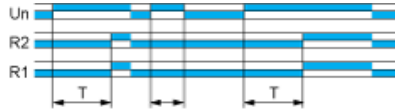
Wiring Diagram



Functions A1, A2: Delay on Energisation

Description

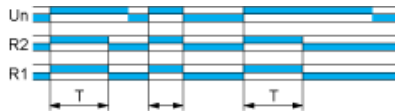
The timing period T begins on energisation. After timing, the output(s) R close(s). The second output can be either timed or instantaneous.



Functions H1, H2: Pulse-on Energisation

Description

On energisation of the relay, timing period T starts and the output(s) R close(s). At the end of the timing period T, the output(s) R revert(s) to its/their initial state. The second output can be either timed or instantaneous.



If H1 is selected, only R2 is timed, R1 is instantaneous.

Legend

- Relay de-energised
- Relay energised
- Output open
- Output closed

- C Control contact
- G Gate
- R Relay or solid state output
- R1/ 2 timed outputs
- R2 The second output is instantaneous if the right position is selected
- inst.
- T Timing period
- Ta Adjustable On-delay
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- Tr Adjustable Off-delay
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- U Supply