

Timing characteristics

Repeat accuracy (with constant parameters)			± 0.5 %
Full scale setting accuracy	Conforming to IEC/EN 61812-1		10 % at 25 °C
Temperature drift			0.05 %/ °C
Maximum reset time by de-energisation	During time delay period	ms	50
	After time delay period	ms	250
Immunity to microbreaks		ms	≤ 5
Voltage drift			± 0.2 % / V

Output characteristics

Output type	Relay		2 and 4 cadmium-free C/O contacts
Rated current		A	~ 5
Rated insulation voltage		V	~ 250
Maximum breaking capacity (resistive)		A	4 x 5
Maximum permissible current		A	10 < 0.01 s
Minimum breaking current		mA	100
Electrical life at I max ~ 250 V resistive			10 ⁵ operating cycles
Mechanical life			10 ⁷ operations
Dielectric strength	To IEC/EN 61812-1 and 60601-1		2 kV at 1 mA for 1 min at 50 Hz

General characteristics

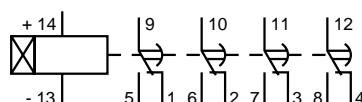
Conforming to standards			IEC/EN 61812-1, 60601-1, 60601-2, EN 50081-2, 61000-6-2, LV (73/23/EEC + 93/68/EEC) + EMC (89/336/EEC) directives
Product certifications			UL-cUL
State indication by LED	Output in operation		Red LED
	Power on		Yellow LED
Permissible voltage variation	--- 12 V		± 10 %
	--- 24 V		± 10 %
	~ 24 V		± 15 %
	~ 120 V		± 15 %
	~ 230 V		± 15 %
Frequency		Hz	50/60 ± 1
Maximum power consumption	--- 12 V	W	1.5
	--- 24 V	W	1.2
	~ 24 V	VA	1.7
	~ 120 V	VA	2.6
	~ 230 V	VA	3
Temperature limits	Operation	°C	- 20...+ 60
	Storage	°C	- 40...+ 70
Insulation voltage	To standard VDE 0010 IEC 255 Group C	V	~ / --- 250
Degree of protection	Conforming to IEC 60529		IP 50
Overvoltage protection		joules	2
Fixing	Base-mounted		On socket
Vibration resistance	Conforming to IEC 60068-2-6, 10 to 55 Hz		a = 0.35 mm
Relative humidity	Conforming to IEC 60068-2-3 without condensation		95 % max

Immunity to electromagnetic interference (EMC) (application class 2 conforming to EN 61812-1/A11)

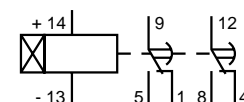
Electrostatic discharge	Conforming to IEC/EN 61000-4-2		Level 3 (Air 8 kV contact, 6 kV)
Electromagnetic fields	Conforming to IEC/EN 61000-4-3		Level 3 (10 V/m)
Fast transients	Conforming to IEC/EN 61000-4-4		Level 3 (2 kV)
Shock waves	Conforming to IEC/EN 61000-4-5		Level 3 (2 kV)
Radio frequencies in common mode	Conforming to IEC/EN 61000-4-6		Level 3 (10 V rms from 0.15 MHz to 80 MHz)
Voltage dips and breaks	Conforming to IEC/EN 61000-4-11		30 %/10 ms, 60 %/100 ms and 1 s, > 95 %/5 s
Radiated and conducted emissions	Conforming to EN 55022 (EN 55011 group 1)		Class B
Creepage distance and clearance	Conforming to IEC 60664-1	kV	4, in category 3

Internal schemes

Relay with 4 C/O contacts



Relay with 2 C/O contacts



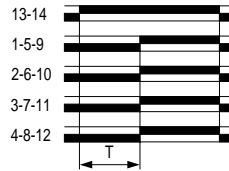
Relay output, 2 and 4 C/O contacts

- Miniature and plug-in (21 x 27 mm)
- Function A : on-delay
- 7 timing ranges: 0.1 s to 100 h
- Excellent immunity to interference
- Power on and relay energised indication by 2 LEDs

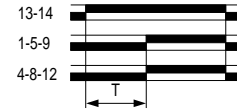
Function diagrams

Function A

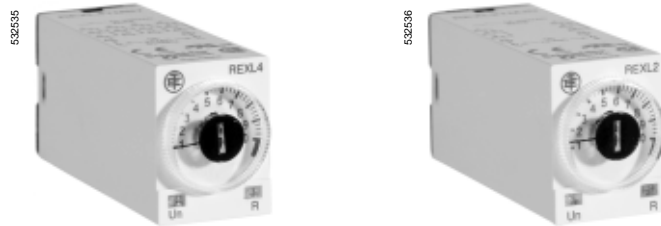
Delay on energisation
4 timed C/O contacts



2 timed C/O contacts



References



Functions		Single function	
		A	
Timing ranges	7 switchable ranges	0.1 s...1 s - 1 s...10 s - 0.1 min...1 min - 1 min...10 min - 0.1 h...1 h - 1 h...10 h - 10 h...100 h	
Relay output		4 timed C/O contacts	2 timed C/O contacts
Rated current		~ 5 A	~ 5 A
Voltages	≡ 12 V	RE XL4TMJD	RE XL2TMJD
	≡ 24 V (1)	RE XL4TMBD	RE XL2TMBD
	~ 24 V 50/60 Hz (1)	RE XL4TMB7	RE XL2TMB7
	~ 120 V 50/60 Hz	RE XL4TMF7	RE XL2TMF7
	~ 230 V 50/60 Hz	RE XL4TMP7	RE XL2TMP7
Weight (kg)		0.050	0.050
Sockets (2) with mixed contact terminals (3)	With screw clamp terminals	RXZ E2M114 (5)	RXZ E2M114 (5)
	Weight (kg)	0.048	0.048
	With connector	RXZ E2M114M (5)	RXZ E2M114M (5)
Sockets (2) with separate contact terminals (4)	With connector	RXZ E2S114M (6)	RXZ E2S108M (6)
	Weight (kg)	0.058	0.070

(1) For ≡ 48 V supply, additional resistor 560 Ω 2 W / ≡ 24 V.
For ~ 48 V supply, additional resistor 390 Ω 4 W / ~ 24 V.

(2) These products are sold in lots of 10.

(3) The inputs are mixed with the relay's supply terminals, with the outputs being located on the opposite side of the socket.

(4) The inputs and outputs are separated from the relay supply terminals.

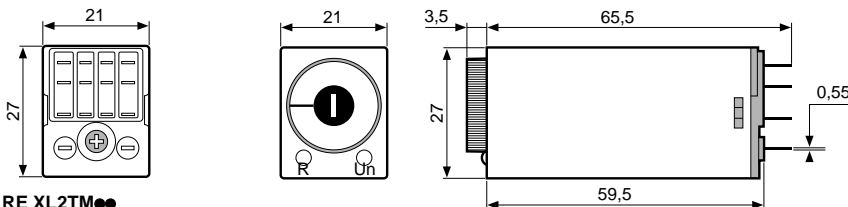
(5) Thermal current I_{th}: 10 A

(6) Thermal current I_{th}: 12 A

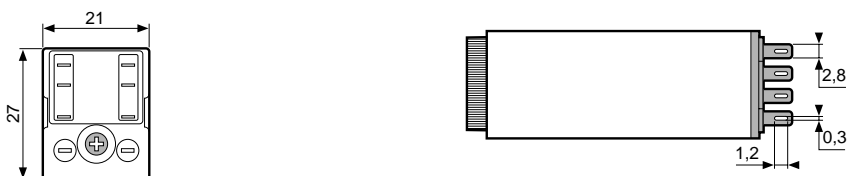
Dimensions and terminal referencing

Dimensions

RE XL4TM●●



RE XL2TM●●



Terminal referencing

