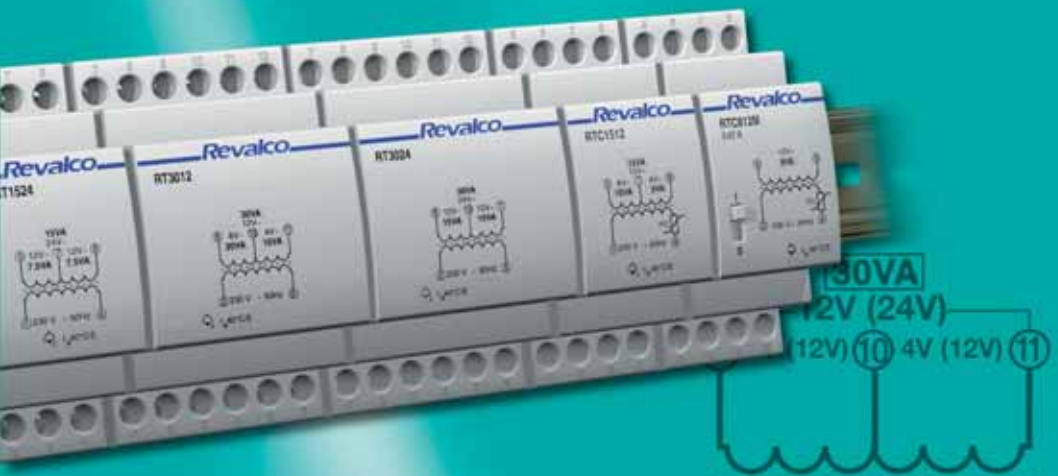
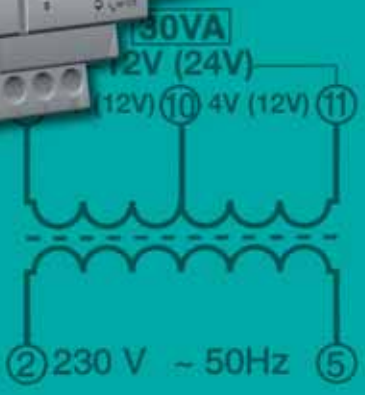
Revalco®

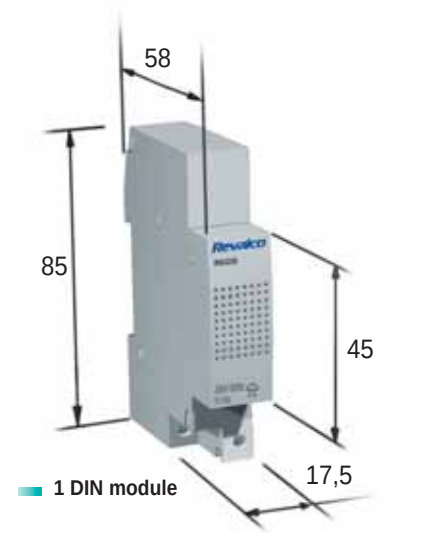
Made in Italy

equipments for civil automation

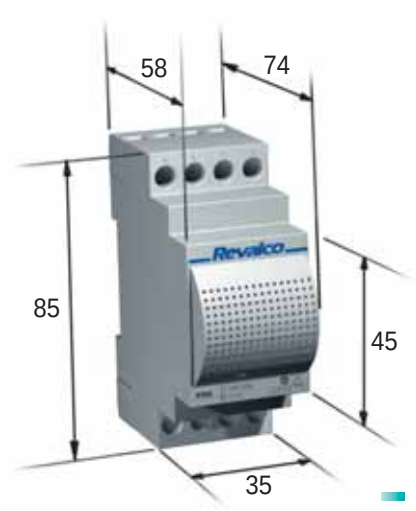


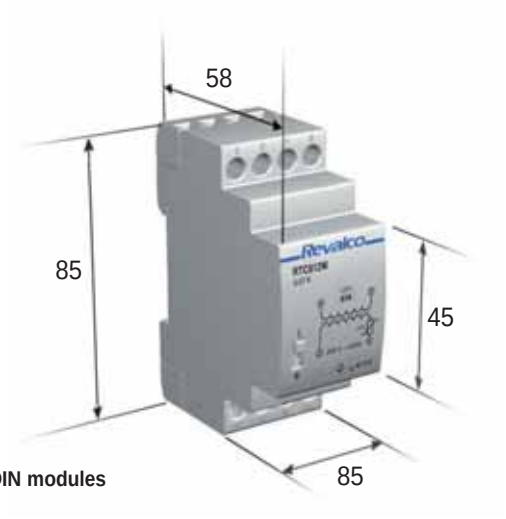


DIMENSIONS IN mm

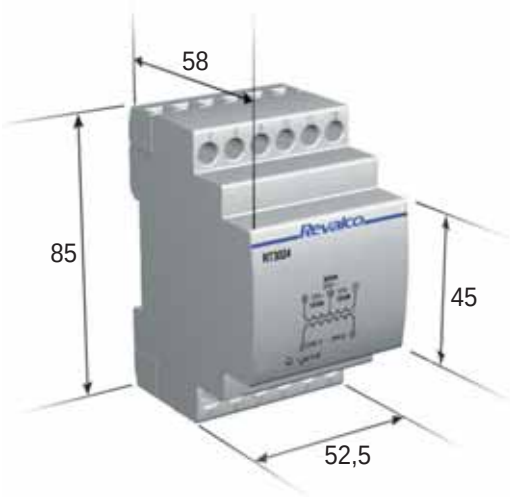


1 DIN module

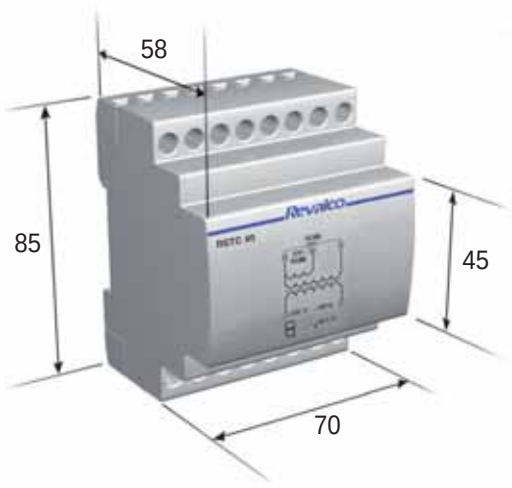




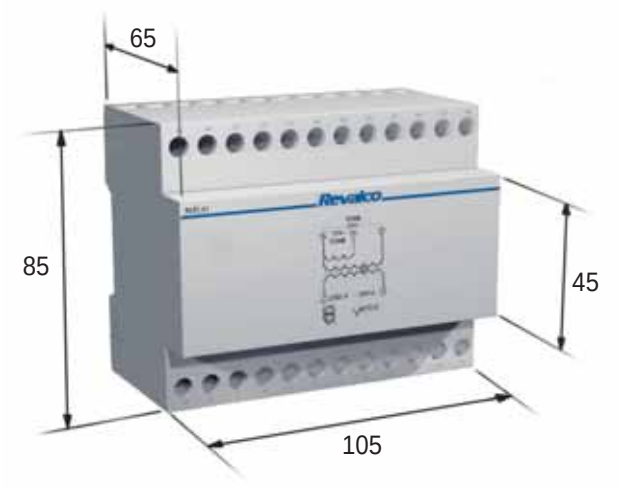
2 DIN modules



3 DIN modules



4 DIN modules



6 DIN modules

TIME SWITCHES

IMPULSE RELAYS

ALARMS

STAIRS LIGHT ELECTRONIC RELAY

EMERGENCY STATIC LAMP

SAFETY TRANSFORMERS

BELLS AND BUZZERS

ANALOGUE TIME SWITCHES

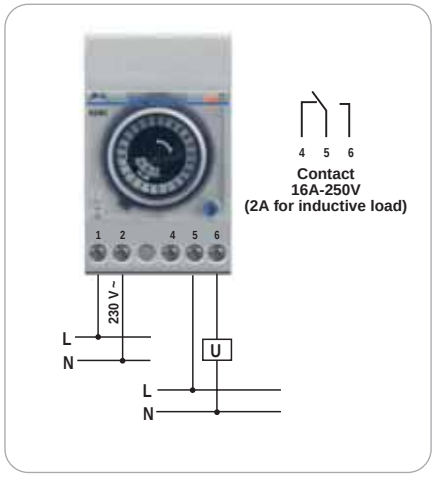
The analogue time switches are housed in 3 DIN modules with front adjustments by use of retained metal switch elements, available as Daily (with 15 min intervals) or Weekly (with 2 hours intervals) versions. Each device can be easily programmed with instant verification at any time and can be combined with an off peak switch to control periods when the timed cycle is not required. The use of these devices is especially requested at installations where the control of operating times during an on/off timed cycle is required, for equipment such as Pumps or Heaters, to control temperature or flow.

These units incorporate a battery which contents can be harmful to the enviroment. Please do not throw them away without removing the battery and putting them in the proper container for recycled batteries.

DAILY TIME SWITCH, WITHOUT BACK-UP TIME

1ROM1

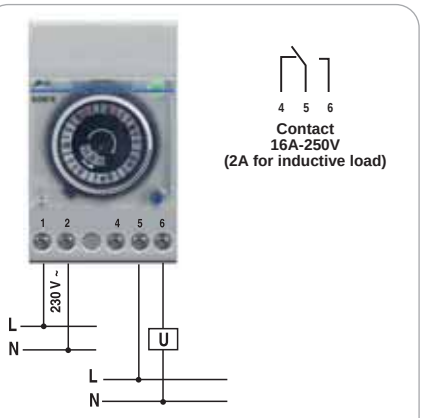
- **STANDARDS** IEC669 - 1; EN60730
- **BURDEN** 1 W
- **FREQUENCY** 50 Hz
- **AUXILIARY POWER SUPPLY** from 150 to 240V ± 10%
- **PRECISION** time: ± 25 sec/month; operating: ± 3 min
- **TEMPERATURE** working 0°C ÷ +50°C / storage -25°C ÷ +70°C
- **SIGNALLING LED** **red** led= voltage presence
- **MANUAL OPERATING SWITCH** 3 positions: Off - On - Automatic
- **WORKING CYCLE** daily
- **MOVEMENT** synchro motor
- **MINIMUM SETTING INTERVAL** 15 min
- **Actual time display**
- **TERMINAL WIRES** 2x2,5 mm²
- **PROTECTION DEGREE** IP20
- **SWITCHING CONTACT (silver/cadmio)** one change-over, 16A - 250V (2A inductive load)
- **Sealable front cover**
- **DIMENSIONS / WEIGHT Kg.** 3 DIN modules / 0,22



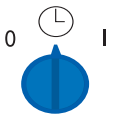
DAILY TIME SWITCH, WITH BACK-UP TIME

1ROM1RE

- **SIGNALLING LED** **green** led = voltage presence
- **BACK-UP TIME** 150 ore
- **STANDARDS** IEC669 - 1; EN60730
- **BURDEN** 1 W
- **AUXILIARY POWER SUPPLY** from 180 to 240V ± 10% - Frequency 50 Hz
- **PRECISION** time: ± 25 sec/month; operating: ± 3 min
- **TEMPERATURE** working 0°C ÷ +50°C / storage -25°C ÷ +70°C
- **MANUAL OPERATING SWITCH** 3 positions: Off - On - Automatic
- **WORKING CYCLE** daily - Quartz movement
- **MINIMUM SETTING INTERVAL** 15 min
- **Actual time display**
- **TERMINAL WIRES** 2x2,5 mm²
- **PROTECTION DEGREE** IP20
- **SWITCHING CONTACT (silver/cadmio)** one change-over, 16A - 250V (2A inductive load)
- **DIMENSIONS / WEIGHT Kg.** 3 DIN modules / 0,22

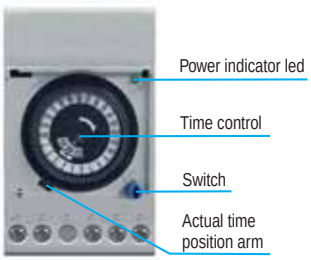


- **Manual selector**



0 = Permanent OFF
I = Permanent ON
= Automatic

- **Operation**

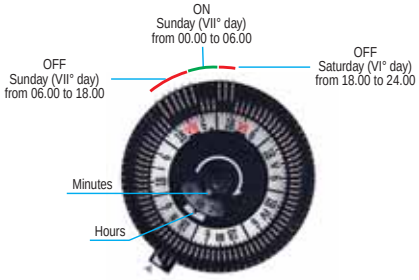


WEEKLY TIME SWITCH, WITH BACK-UP TIME

1ROM7R

- **STANDARDS** IEC669 - 1; EN60730
- **BURDEN** 1 W
- **FREQUENCY** 50 Hz
- **AUXILIARY POWER SUPPLY** from 180 to 240V ± 10% - Frequency 50 Hz
- **PRECISION** time: ± 25 sec/month; operating: ± 3 min
- **TEMPERATURE** working 0°C ÷ +50°C / storage -25°C ÷ +70°C
- **SIGNALLING LED** **green** led= voltage presence
- **MANUAL OPERATING SWITCH** 3 positions: Off - On - Automatic
- **WORKING CYCLE** weekly - Quartz movement
- **BACK-UP TIME** 150 h
- **MINIMUM SETTING INTERVAL** 2 h
- **ACTUAL TIME DISPLAY**
- **TERMINAL WIRES** 2x2,5 mm²
- **PROTECTION DEGREE** IP20
- **Sealable front cover**
- **SWITCHING CONTACT (silver/cadmio)** one change-over, 16A - 250V (2A inductive load)
- **DIMENSIONS / WEIGHT Kg.** 3 DIN modules / 0,22

- **Example of programming**

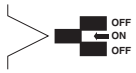


DAILY TIME SWITCH, WITH BACK-UP TIME

1ROM1DR

- **STANDARDS** IEC669 - 1; EN60730
- **CLASS** II - EN60335 for correct connection only
- **BURDEN** 0.5W
- **AUXILIARY POWER SUPPLY** from 220 to 240V ± 10% - Frequency 50 Hz
- **PRECISION** ±3sec/day at 22°C
- **TEMPERATURE** working 0°C ÷ +50°C / storage -25°C ÷ +70°C
- **WORKING CYCLE** daily 96 pins - Quartz movement
- **BACK-UP TIME** 100 h
- **MINIMUM SETTING INTERVAL** 15 min
- **TERMINAL WIRES** 2x2,5 mm²
- **PROTECTION DEGREE** IP20
- **Sealable front cover**
- **SWITCHING CONTACT** 16(4)A 250V AC
- **DIMENSIONS / WEIGHT Kg.** 1 DIN module / 0,08

Operation: move the pins to the right (Off) or the left(On), as per the neaded times of connection on which the contact 1-2 will be closed.



Turn the dial till the index is on current time

Manual operating switch 2 positions:
Automatic
Permanent ON

DIGITAL TIME SWITCH

1ROM2ER

- **STANDARDS** IEC669 - 1; EN60730
- **BURDEN** 2 VA
- **AUXILIARY POWER SUPPLY** 230 V - Frequency 50/60 Hz
- **RELAY (CHANGE OVER CONTACT)**
  - characteristics 1A: 10A/250VAC, 16A/30VDC
    1C: 10A/250VAC, 12A/30VDC
  - max power 300W, 2500VA
  - max voltage 110VDC, 380VAC
  - max current 16A (Resistive) - 8A (Inductive)
- **MINIMUM SETTING INTERVAL** 1 minute
- **TEMPERATURE** 0 - 50 °C
- **PRECISION** +/- 1 minute / month
- **BATTERY DURATION WITHOUT POWER** 300 h
- **DIMENSIONS / WEIGHT Kg.** 2 DIN modules / 0,20

Don't use this device in applications with higher loads of the max specified range. Be sure that the connections are surely made and the devices controlled by the timer can work without surveillance. The timer has 8 programs ON/OFF in total. MANUAL ON/AUTO/MANUAL OFF can adapt the functions of the device in simple way for every exigence. 12/24 hours modality is easily settable. Function SUMMER/WINTER adapts the timer to the legal hours use.

- 16 different days or day groups combinations are available in the timer as shown:

days: MONDAY (MO) - TUESDAY (TU) - WEDNESDAY (WE) - THURSDAY (TH) - FRIDAY (FR) - SATURDAY (SA) - SUNDAY (SU)

or **day groups**: MO,TU,WE,TH,FR,SA,SU - MO,TU,WE,TH,FR - SA,SU - MO,TU,WE,TH,FR,SA - MO,WE,FR - TU,TH,SA - MO,TU,WE - TH,FR,SA - MO,WE,FR,SU

OPERATION

- Power the timer.
- Let charge the internal battery for at least 12 hours. This battery will grant the operations in absence of voltage. After this charge period cancell all the informations present pressing the "Reset" button. The timer is now ready to work.
- **Set the date, hour and minutes**

  Push "◷+" button (clock) maintain pressure on it and, contemporary push button "**DAY**" until the actual day appears on the display.
  Continue pushing "**h**" (hour) or "**min**" (minute) until the actual time appear on the display. To fast forward, maintain pressure on the buttons **DAY, h, min.**
  Release both buttons. Week and time will be memorized. In case of errors repeat the mentioned steps.
- **Set program SWITC-ON / SWITCH-OFF**

  1) Maintain pressure on button "**Prog**" and release it. Now it is possible to make the **first** programming "**ON**".
  2) Maintain pressure on button "**DAY**" to select the day or the day groups. Set the hour by pressing button "**h**" (hour) and after the button "**min**" (minutes).
  3) Maintain again pressure on button "**Prog**" to finish the first "**ON**" programming and enter into the first "**OFF**" programming. Repeat item 2 for "**OFF**" programming.
  4) Maintain pressure on button "**Prog**" to finish the first "**OFF**" programming and enter into the **second** "**ON**" programming.

  Repeat items 2 and 3 to set **the rest** of "**ON**" and "**OFF**" programming.
  5) After the end of the programmings, push button "◷+" (clock) . The timer is ready to work.

  EXAMPLE: Timer ON (Switch-On) at 18,15 pm and Timer OFF (Switch-Off) at 22,15 pm every day

  a) by pressing "**Prog**", the display will shows **1_ON**
  b) press "**DAY"** until the display will shows "**MO,TU,WE,TH,FR,SA,SU**"
  c) press "**h**" (hour) until the display will shows **6.00 pm** or **18.00**.
  d) press "**min**" (minute) until the display will shows **6.15 pm** or **18.15**
  e) by pressing "**Prog**" again, the display will shows **1_OFF**
  f) repeat items "c" and "d" untill the display will shows **10.15 pm** or **22.15**

ATTENTION: During the control of the programs, pay attention that the programmings do'nt superimposed , specially if the the day groups and not the single day is used. Button "**Reset/Prog**" is used to qualify the programming time or exclude it if not used.
By the first pressure the display will shows "**- - - -** " (uninhabited step).
By further pressure the display will shows "**00:00**" (predisposed to the programming).

- **MANUAL ON/AUTO/MANUAL OFF buttons use**

  Maintain pressure on button "**MANUAL**" to see the three operative possibilities:
  MANUAL ON (always switch-on) MANUAL OFF (always switch-off) AUTO (setted program as above)
  When you change the modality from "MANUAL" to "AUTO" the timer will start with the setted programming when it will read the first variation "ON" or "OFF".
- **12 or 24 h modality**. Press ◷+ (clock) and "**Prog**" contemporary to go from 12h to 24h modality and vice versa.
- **Legal time function** (SUMMER/WINTER)

  In "**AUTO**" modality, press contemporary ◷+ (clock) and **MANUAL** ; on the display the word "SUMMER" will be displayed, and the clock will shows 1 hour less. Press again C+ and MANUAL to come back in "WINTER" modality.

IMPULSE RELAYS

ELECTRONIC — 1REP

- **STANDARDS** EN60669
- **BURDEN** < 2W
- **FREQUENCY** 40 ÷ 60 Hz
- **AUXILIARY POWER SUPPLY** 230V(±10%)
- **TEMPERATURES** operating 0°C ÷ +50°C / storage -25°C ÷ +70°C
- **SIGNALLING LED** **red** led light-on = light-on command carried out
- **FUNCTION SELECTOR** clockwise: always OFF - Automatic 1 - Automatic 2 - always ON
- **NOMINAL CURRENT** 16A
- **MAXIMUM CURRENT** 2 times the **In** (equal to 32A) for 0,5 seconds
- **POWER** 2300W AC1 - 1500W AC3
- **N.O. CONTACT RELAY** 16A - 250VCA AC1
- **DIMENSIONS / WEIGHT kg.** 1 DIN module / 0,80

- "Step-step relay" permits, by using push-buttons positioned on various rooms, to light-on (by the first pressure) and to light-off by the further pressure of the same button, the load connected to the relay (example: lights, ventilation).
- Function selection is made by a rotating selector as per the following drawing:

- with selector in "OFF" position the relay never will be activate.
- with selector in "AUTO 1" position the relay will be activate and deactivate by every short pressure of external push-button (pressure less than 3 sec)
- with selector in "AUTO 2" position the relay will be activate every long pressure of external push-button (pressure more than 3 sec) and will be deactivate every short pressure of external buttons (pressure less than 3 sec)
- with selector in "ON" position the relay will be always activate.

- The device permits the use of bright push-buttons (neon lamp incorporated) with the minimum burden of 0,1A relative to this function.
- This relay, when powered (L1-N) and if in "AUTO" mode, has the internal relay in N.O. (rest) condition.
- This relay works with 3 wires or 4 wires connection, independently by the electrical contest, **simplifying its connection**.

"AUTO 1" and "AUTO 2" FUNCTION EXAMPLES

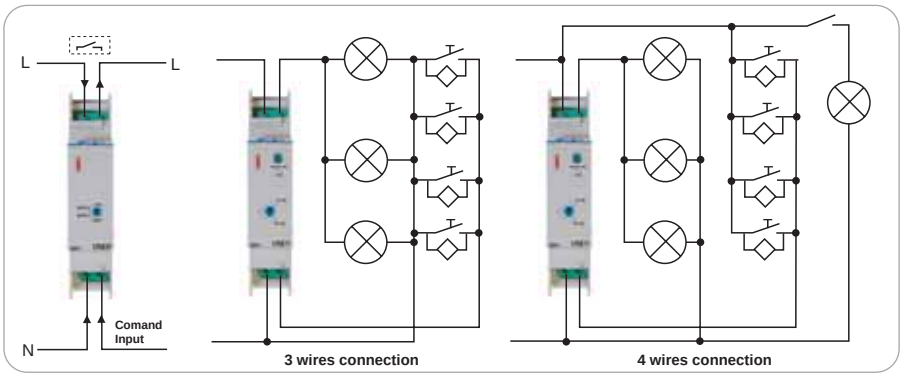
- Assume to have a light installation with double lamp. It is possible to connect one electronic step-step relay in "AUTO 1" mode to the first lamp and another in "AUTO 2" mode to the second lamp with a push-button command . By a short pressure light-on and light-off one lamp only (low brightness) or by a long pressure (recognized by both relays) light-on both lamps (high brightness), further , by a short pressure both lamps can be lighted-off. It is also possible:
- by short pressure, light-on the lamp linked to "AUTO 1" after, by a long pressure, light-on "AUTO 2" lighting-off "AUTO 1".
- by short pressure light-off "AUTO 2" and light-on "AUTO 1"
- by further short pressure light-off "AUTO 1" while "AUTO 2" is already light-off.

In this way it is possible to obtain every combination about light-on and light-off of 2 lamps.

In any case by a series of short pressures the lamps can be light-off completely.

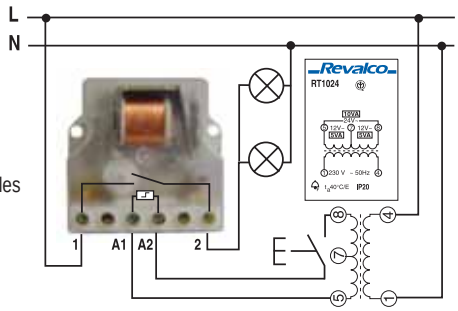
NOTE:

In "AUTO 1" mode, the functioning of this device is equivalent to an electromechanical relay normally in commerce that have the same function.

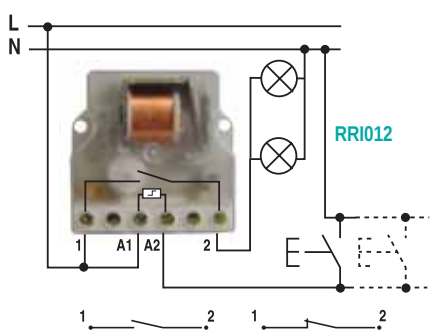


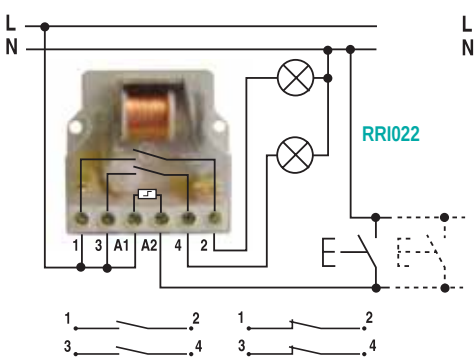
ELECTROMECHANICAL — RRI

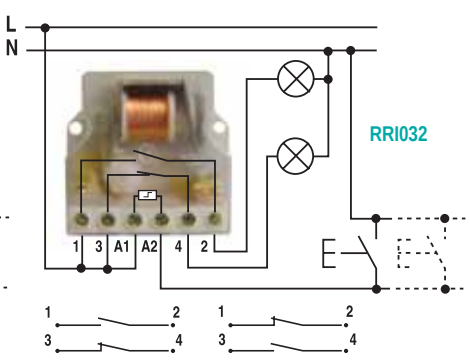
	RRI012-12	RRI012-24	RRI012-230	RRI022-12	RRI022-24	RRI022-230	RRI032-12	RRI032-24	RRI032-230
CONTACT NUMBERS / SEQUENCE NUMBERS	1NA / 2	1NA / 2	1NA / 2	2NA / 2	2NA / 2	2NA / 2	1NA-1NC / 2	1NA-1NC / 2	1NA-1NC / 2
COIL DATA: Nominal voltage 50 Hz (Un)	12VAC	24VAC	230VAC	12VAC	24VAC	230VAC	12VAC	24VAC	230VAC
Power	4,5VA								
Range	0,8....1,1 Un								
NOMINAL CURRENT / MAX PEAK CURRENT	10/20 A								
NOMINAL VOLTAGE / MAX SWITCHING VOLTAGE	250 / 400 V								
NOMINAL LOAD AC1 / AC15 (230V AC)	2500 VA / 500 VA								
MINIMUM SWITCHING LOAD	1,00 mW (10 V / 10 mA)								
CONTACT MATERIAL	AgNi								
MECHANICAL / ELECTRICAL LIFE AT NOMINAL LOAD AC1	300x10³ cycles / 100x10³ cycles								
MIN/MAX IMPULSE DURATION (EN60669)	0,1 s / 1 h								
INSULATION BETWEEN COIL AND CONTACTS	4 kV (1,2/50 µs)								
TEMPERATURE	-40 °C .... +40 °C								
PROTECTION	IP20								
DIMENSIONS	45x46,6x h 23,5								



Connection example with transformer 12/24 VAC



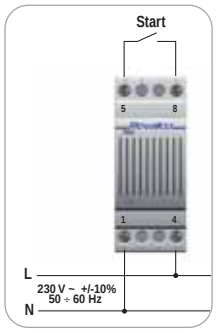




ALARMS

1RSA

- **POWER SUPPLY** 230 VAC
- **MULTI-USE EMPLOYMENT**
- **PIETZOELECTRIC TECHNOLOGY**
- **BURDEN** 5 mA at 230VAC
- **ACOUSTIC POWER** 84 db at 1 meter
- **DIMENSIONS** 2 DIN modules
- **WEIGHT Kg.** 0,19



STAIRS LIGHT ELECTRONIC RELAY

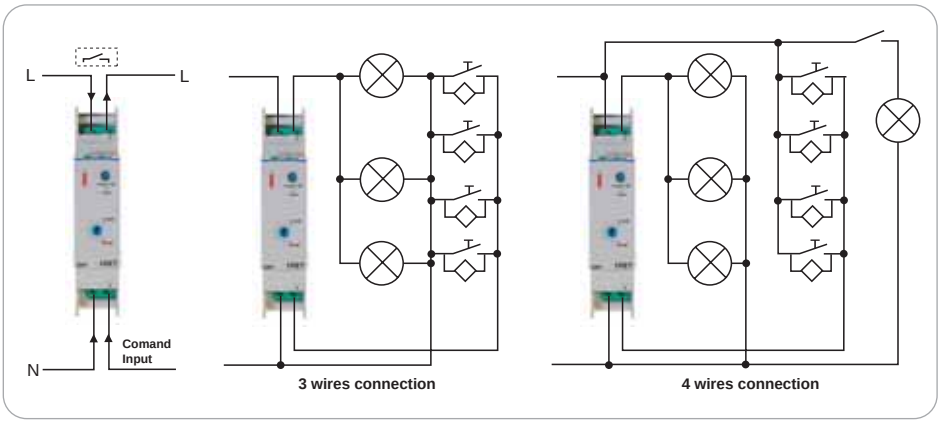
1RET

- **STANDARDS** EN60669
- **BURDEN** < 2W
- **FREQUENCY** 40 ÷ 60 Hz
- **AUXILIARY POWER SUPPLY** 230V(±10%)
- **TEMPERATURES** operating 0°C ÷ +50°C / storage -25°C ÷ +70°C
- **SIGNALLING LED** **red** led light-on = light-on command carried out
- **ROTATIVE SELECTOR** permits to select the light-on time of the lamps (from 30 sec to 15 min)
- **FRONTAL PUSH BUTTON** permits to select the function "always ON" or "Timer"
- **NOMINAL CURRENT** 16A
- **MAXIMUM CURRENT** 2 times the **In** (equal to 32A) for 0,5 seconds
- **N.O. CONTACT RELAY** 16A - 250VCA AC1
- **DIMENSIONS / WEIGHT kg.** 1 DIN module / 0,80

- This device permits, by using push-buttons positioned on various rooms, the temporized light-on of lamps connected to it.

- Functioning time can be selected between 15 sec to 15 min turning the proper rotative selector.
- By pressing one of the connected push-button, lamp will light-on. Further pressure, with light-on lamp, generates a new cycle of light-on time extending the brightness time.
- This relay forecast the function **"end-time notice"** that carry out by a short light-off and immediate light-on of lamps 30 seconds before the end of the selected time. This fact permits the prolongation (by pressing the nearest push-button) the brightness time.

- The device permits the use of bright push-buttons (neon lamp incorporated) with the minimum burden of 0,1A relative to this function.
- This relay permits to select a 1 hour time cycle, simply maintaining pressure on any push-button for more than 5 seconds. Lamp lights-on at the beginning of the pressure of push-button and after 5 seconds of continuous pressure the device informs about learning of 1 hour time selection by a short light-off and immediate light-on of lamp. This cycle, once activate, goes out and the relay works again with the previously selected time.
- When powered (L-N) it makes autonomously a time cycle as help from a possible black-out.
- This relay works with 3 wires or 4 wires connection, independently by the electrical contest, **simplifying its connection**.
- By pressing the frontal push-button when the temporization is activate, it is possible to stop it forcing the lamps light-off. If lamps are light-off it is necessary light-on them permanently and after by further pressure, light-off them.



EMERGENCY STATIC LAMP

1RLE

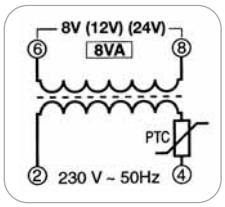
- STATIC ILLUMINANT ELEMENT WITH UNLIMITED DURATION (Absence of batteries, ecologic device)
- WITH HIGH LUMINOSITY INTENSITY (8000 mcd peak). The unlimited duration produces an ideal device for the use in the cases of the certainty of work when the auxiliary power supply is fundamental.
- An emergency lamp which automatically switches on after the auxiliary power supply is interrupted, giving sufficient light to continue working at switchboards and similar locations.
  The device is provided by two leds that inform about the working condition of the unit:
  - **Red** light indicating level of charge
  - **Green** light indicating fully charged and ready for use in the event of auxiliary power failure.
- **POWER SUPPLY** 230 VCA 50/60 Hz
- **WORKING TEMPERATURE** -20 °C ÷ +70 °C
- **USEFUL AUTONOMY ILLUMINATION** 2 h
- **RECHARGE TIME** 2 h
- **DIMENSIONS** 2 DIN modules
- **WEIGHT Kg.** 0,15

SAFETY BELL TRANSFORMERS (intermittent use)

- STANDARDS	EN61558-1-2-8	- MAX AMBIENT TEMPERATURE	40°C
- NOMINAL FREQUENCY	50 Hz	- THERMIC AND SHORT-CIRCUIT PROTECTION	PTC
- PROTECTION CLASS	IP20	- SECONDARY VOLTAGE REFERRED TO THE NOMINAL SECONDARY CURRENT	-15%
- INSULATION CLASS	II		

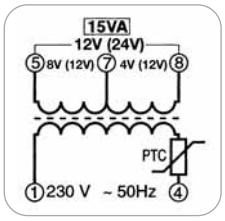
RESISTANT TO THE SHORT-CIRCUIT SERIES WITH PTC AND SWITCH

	1RTC88M	1RTC812M	1RTC824M
- POWER SUPPLY terminals 2 and 4	230V~	230V~	230V~
- SECONDARY VOLTAGES	8V	12V	24V
- NON CONTINUOUS POWER ON THE SECONDARY terminals 6 and 8	8V - 8VA	12V - 8VA	24V - 8VA
- ON / OFF SWITCH	ON (I) OFF (O)		
- DIMENSIONS / WEIGHT Kg.	2 DIN modules / 0,30		

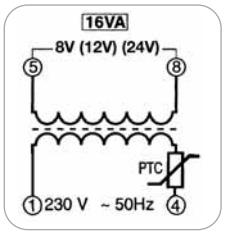


RESISTANT TO THE SHORT-CIRCUIT SERIES WITH PTC

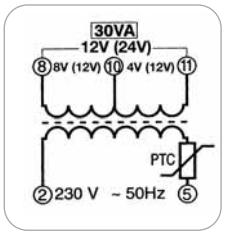
	1RTC1512	1RTC1524
- POWER SUPPLY terminals 1 and 4	230V~	230V~
- SECONDARY VOLTAGES	4 - 8 and 12V	12 -12 and 24V
- NON CONTINUOUS POWER ON THE SECONDARY		
terminals 7and 8	4V - 5VA	12V - 7,5VA
terminals 5 and 7	8V - 10VA	12V - 7,5VA
terminals 5 and 8	12V - 15VA	24V - 15VA
- DIMENSIONS / WEIGHT Kg.	2 DIN modules / 0,37	



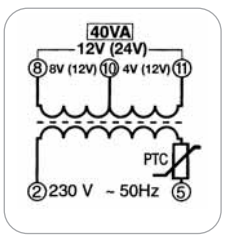
	1RTC168	1RTC1612	1RTC1624
- POWER SUPPLY terminals 1 and 4	230V~	230V~	230V~
- SECONDARY VOLTAGES	8V	12V	24V
- NON CONTINUOUS POWER ON THE SECONDARY terminals 5 and 8	8V - 16VA	12V - 16VA	24V - 16VA
- DIMENSIONS / WEIGHT Kg.	2 DIN modules / 0,38		



	1RTC3012	1RTC3024
- POWER SUPPLY terminals 2 and 5	230V~	230V~
- SECONDARY VOLTAGES	4 - 8 and 12V	8 -12 and 24V
- NON CONTINUOUS POWER ON THE SECONDARY		
terminals 10 and 11	4V - 10VA	12V - 15VA
terminals 8 and 10	8V - 20VA	12V - 15VA
terminals 8 and 11	12V - 30VA	24V - 30VA
- DIMENSIONS / WEIGHT Kg.	3 DIN modules / 0,51	



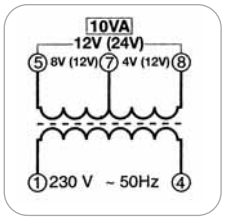
	1RTC4012	1RTC4024
- POWER SUPPLY terminals 2 and 5	230V~	230V~
- SECONDARY VOLTAGES	4 - 8 and 12V	12 -12 and 24V
- NON CONTINUOUS POWER ON THE SECONDARY		
terminals 10 and 11	4V - 13VA	12V - 20VA
terminals 8 and 10	8V - 27VA	12V - 20VA
terminals 8 and 11	12V - 40VA	24V - 40VA
- DIMENSIONS / WEIGHT Kg.	3 DIN modules / 0,51	



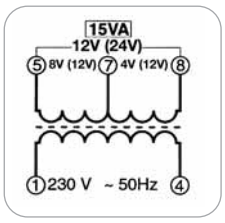
STANDARD SERIES

- **STANDARDS** EN61558-1-2-8
- **NOMINAL FREQUENCY** 50 Hz
- **PROTECTION CLASS** IP20
- **INSULATION CLASS** II
- **MAX AMBIENT TEMPERATURE** 40°C
- **SECONDARY VOLTAGE REFERRED TO THE NOMINAL SECONDARY CURRENT** -15%

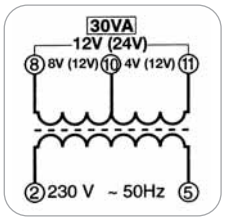
	1RT1012	1RT1024
- POWER SUPPLY terminals 1 and 4	230V~	230V~
- SECONDARY VOLTAGES	4 - 8 and 12V	12 -12 and 24V
- NON CONTINUOUS POWER ON THE SECONDARY		
terminals 7 and 8	4V - 3,3VA	12V - 5VA
terminals 5 and 7	8V - 6,6VA	12V - 5VA
terminals 5 and 8	12V - 10VA	24V - 10VA
- DIMENSIONS / WEIGHT Kg.	2 DIN modules / 0,34	



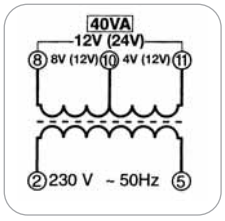
	1RT1512	1RT1524
- POWER SUPPLY terminals 1 and 4	230V~	230V~
- SECONDARY VOLTAGES	4 - 8 and 12V	12 -12 and 24V
- NON CONTINUOUS POWER ON THE SECONDARY		
terminals 7 and 8	4V - 5 VA	12V - 7,5 VA
terminals 5 and 7	8V -10 VA	12V - 7,5 VA
terminals 5 and 8	12V - 15 VA	24V -15 VA
- DIMENSIONS / WEIGHT Kg.	2 DIN modules / 0,36	



	1RT3012	1RT3024
- POWER SUPPLY terminals 2 and 5	230V~	230V~
- SECONDARY VOLTAGES	4 - 8 and 12V	12 -12 and 24V
- NON CONTINUOUS POWER ON THE SECONDARY		
terminals 10 and 11	4V - 10VA	12V - 15VA
terminals 8 and 10	8V - 20VA	12V - 15VA
terminals 8 and 11	12V - 30VA	24V - 30VA
- DIMENSIONS / WEIGHT Kg.	3 DIN modules / 0,50	



	1RT4012	1RT4024
- POWER SUPPLY terminals 2 and 5	230V~	230V~
- SECONDARY VOLTAGES	4 - 8 and 12V	12 -12 and 24V
- NON CONTINUOUS POWER ON THE SECONDARY		
terminals 10 and 11	4V - 13VA	12V - 20VA
terminals 8 and 10	8V - 27VA	12V - 20VA
terminals 8 and 11	12V - 40VA	24V - 40VA
- DIMENSIONS / WEIGHT Kg.	3 DIN modules / 0,51	

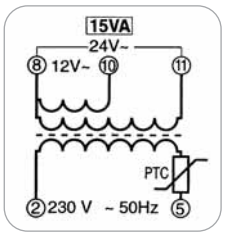


SAFETY BELL TRANSFORMERS (continuous use)

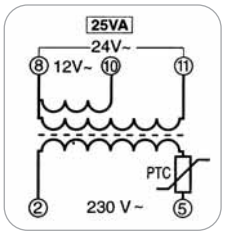
- STANDARDS	EN61558-1-2-6	- INSULATION CLASS	II
- NOMINAL FREQUENCY	50 Hz	- MAX AMBIENT TEMPERATURE	25°C
- PROTECTION CLASS	IP20	- SECONDARY VOLTAGE REFERRED TO THE NOMINAL SECONDARY CURRENT	-5%

RESISTANT TO THE SHORT-CIRCUIT SERIES WITH PTC

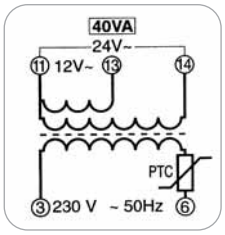
	1RSTC 15
- POWER DISSIPATION	3 W
- POWER SUPPLY terminals 2 and 5	230V~ / 50 Hz
- SECONDARY VOLTAGES	12V and 24V
- CONTINUOUS POWER ON THE SECONDARY	
terminals 8 and 10	12V - 15VA
terminals 8 and 11	24V - 15VA
- DIMENSIONS / WEIGHT Kg.	3 DIN modules / 0,45



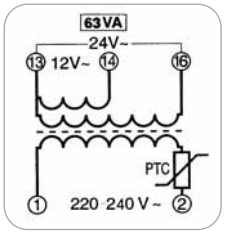
	1RSTC 25
- POWER DISSIPATION	4 W
- POWER SUPPLY terminals 2 and 5	230V~ / 50 Hz
- SECONDARY VOLTAGES	12V and 24V
- CONTINUOUS POWER ON THE SECONDARY	
terminals 8 and 10	12V - 25VA
terminals 8 and 11	24V - 25VA
- DIMENSIONS / WEIGHT Kg.	3 DIN modules / 0,58



	1RSTC 40
- POWER DISSIPATION	5 W
- POWER SUPPLY terminals 3 and 6	230V~ / 50 Hz
- SECONDARY VOLTAGES	12V and 24V
- CONTINUOUS POWER ON THE SECONDARY	
terminals 11 and 13	12V - 40VA
terminals 11 and 14	24V - 40VA
- DIMENSIONS / WEIGHT Kg.	4 DIN modules / 0,82



	1RSTC 63
- POWER DISSIPATION	7 W
- POWER SUPPLY terminals 1 and 2	230V~ / 50 Hz
- SECONDARY VOLTAGES	12V and 24V
- CONTINUOUS POWER ON THE SECONDARY	
terminals 13 and 14	12V - 63VA
terminals 13 and 16	24V - 63VA
- DIMENSIONS / WEIGHT Kg.	6 DIN modules / 1,30



BELLS - BUZZERS

This range consists of **Bells** and **Buzzers** each housed in 1 module case. While in 2 module cases it has been possible to enclose a Bell and Transformer, a Buzzer and Transformer or a Bell and Buzzer together complete with Transformer.

BELLS

	1RSU230	1RSU12
- POWER SUPPLY	230V~	12V~
- FREQUENCY	50÷60 Hz	
- PROTECTION LEVEL	IP20	
- INSULATION CLASS	II	
- TEMPERATURE	-10 ÷ +55°C	
- ACOUSTIC POWER	84 dB at 1 meter	
- BURDEN	10 VA	5 VA
- USE	Intermittent	
- WEIGHT Kg.	0,20	
- DIMENSIONS	1 DIN module	

BUZZERS

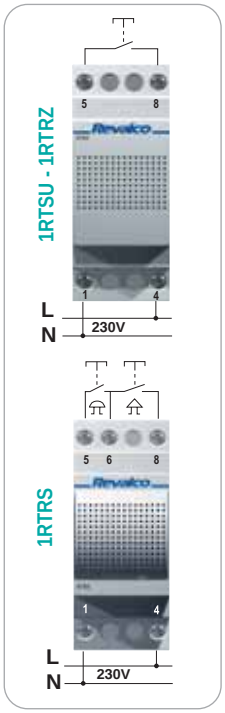
	1RRZ230	1RRZ12
- POWER SUPPLY	230V~	12V~
- FREQUENCY	50÷60 Hz	
- PROTECTION LEVEL	IP20	
- INSULATION CLASS	II	
- TEMPERATURE	-10 ÷ +55°C	
- ACOUSTIC POWER	80 dB at 1 meter	
- BURDEN	10 VA	5 VA
- USE	Intermittent	
- WEIGHT Kg.	0,20	
- DIMENSIONS	1 DIN module	

BELLS AND BUZZERS WITH TRANSFORMERS

1RTSU
1RTRZ

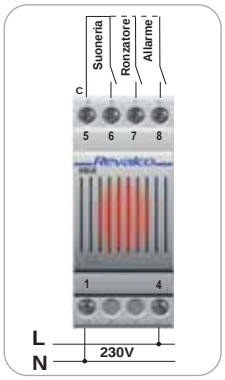
1RTRS

	1RTSU	1RTRZ	1RTRS
Transformer with bell			
Transformer with buzzer			
Transformer with bell and buzzer			
- POWER SUPPLY		230V~	
- FREQUENCY		50Hz	
- PROTECTION LEVEL		IP20	
- INSULATION CLASS		II	
- TEMPERATURE		-10 ÷ +55°C	
- SECONDARY VOLTAGE		24V~	
- Secondary voltage to the nominal secondary current		-15% max	
- PRIMARY CURRENT OF MAGNETIZATION		30 mA max	
- POWER ON SECONDARY 24V (terminals 5 and 8)	6,1 VA	6,1 VA	
- POWER ON SECONDARY 24V (terminals 5 - 6 and 6 - 8)			3,8 VA+3,8 VA
- ACOUSTIC POWER OF BELL	80 dB ad 1m		80 dB ad 1m
- ACOUSTIC POWER OF BUZZER		70 dB ad 1m	70 dB ad 1m
- WEIGHT kg.	0,40	0,40	0,50
- DIMENSIONS		2 DIN modules	



3 TONES ELECTRONIC BELLS

	1RSUE
- POWER SUPPLY	230V~
- FREQUENCY	50÷60 Hz
- PROTECTION LEVEL	IP20
- INSULATION CLASS	II
- TEMPERATURE	-10 ÷ +55°C
- ACOUSTIC POWER	100 dB at 1 meter
- BURDEN	5 VA
- WORK	Intermittent
- WEIGHT kg.	0,20
- DIMENSIONS	2 DIN modules
- While sounds, instrument emits a red light also	



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