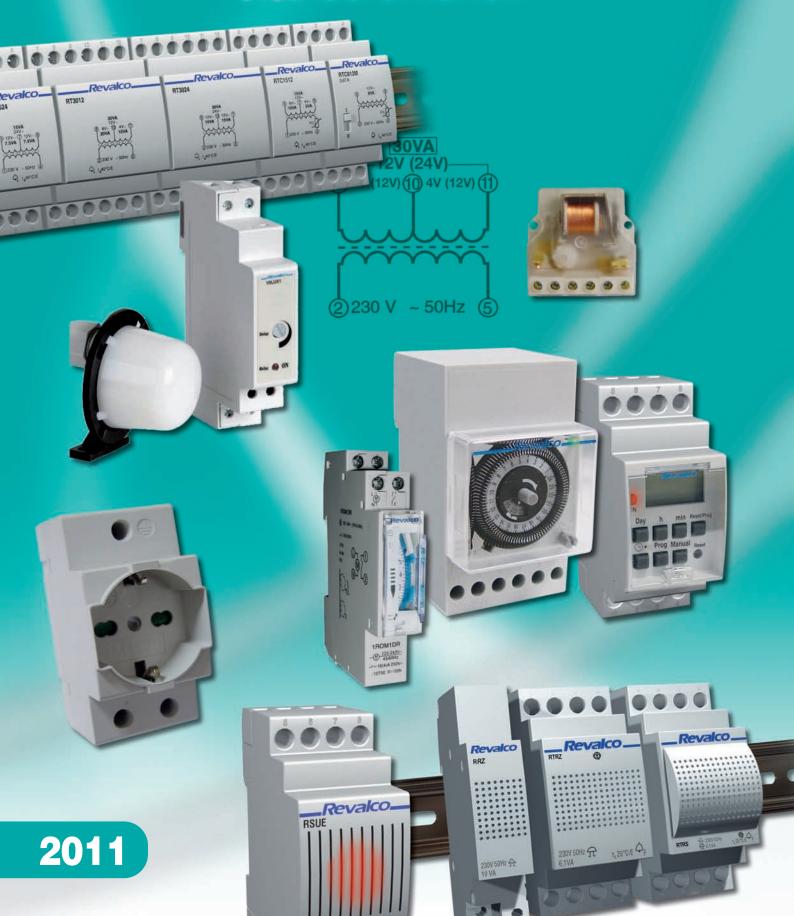
Revalco®

equipments for civil automation

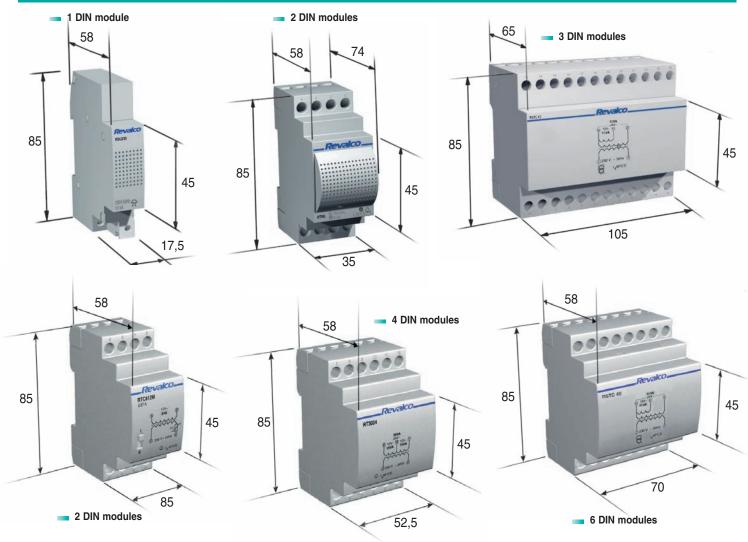


ALARMS EMERGENCY STATIC LAMP EMERGENCY STATIC LAMP **TIME SWITCHES ANALOGUE TIME SWITCHES** Daily time switch, without back-up time - 3 DIN modules / Daily time switch, with back-up time - 3 DIN modules Weekly time switch, with back-up time - 3 DIN modules / Daily time switch, without back-up time - 1 DIN module 211 **ASTRONOMICAL TIME SWITCHES** ASTRONOMICAL TIME SWITCH 1 OUTPUT RELAY **ASTRONOMICAL TIME SWITCH 2 OUTPUTS RELAYS** CREPUSCOLAR SWITCH CREPUSCOLAR SWITCH WITH EXTERNAL PROBE **MULTIVOLTAGE RELAYS** MULTIVOLTAGE RELAY (one output relay) **MULTIVOLTAGE RELAY** (two output relays) **IMPULSE RELAYS** ELECTROMECHANICAL RELAY STAIRS LIGHT ELECTRONIC RELAY STAIRS LIGHT ELECTRONIC RELAY **MODULAR CURRENT SOCKET** MODULAR CURRENT SOCKET SAFETY TRANSFORMERS **SAFETY BELL TRANSFORMERS (intermittent use) SAFETY TRANSFORMERS (continuous use)** Resistant to the short-circuit series with PTC **BELLS AND BUZZERS**

BELLS, BUZZERS, BELLS AND BUZZERS WITH TRANSFORMERS, 3 TONES ELECTRONIC BELLS 219

209

DIMENSIONS IN mm 1 DIN module 2 DIN modules



ALARMS

1RSA



- POWER SUPPLY
- MULTI-USE EMPLOYMENT
- PIETZOELECTRIC TECHNOLOGY
- BURDEN
- ACOUSTIC POWER
- DIMENSIONS
- WEIGHT Kg.

230 VAC

5 mA at 230VAC 84 db at 1 meter 2 DIN modules 0,19



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 -20 °C ÷ +70 °C
- WORKING TEMPERATURE - USEFUL AUTONOMY ILLUMINATION 2 h
- RECHARGE TIME 2 h - DIMENSIONS 2 DIN modules - WEIGHT Kg. 0,15



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 environment. 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

000000

1ROM1

- STANDARDS IEC669 - 1: EN60730

- BURDEN 1 W

- AUXILIARY POWER SUPPLY from 150 to 240V \pm 10% 50 Hz 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

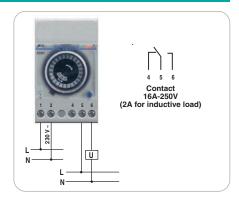
- Actual time display

TERMINAL WIRES / PROTECTION DEGREE 2x2,5 mm² / 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 \pm 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

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 \pm 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 3 positions: Off - On - Automatic - MANUAL OPERATING SWITCH - 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

- Manual selector ΰ **Permanent OFF** 0 = Permanent ON = Automatic - Operation Power indicator led Time control Switch Actual time position arm OFF Sunday (VII° day) from 06.00 to 18.00 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 \pm 10% - Frequency 50 Hz

- PRECISION +3sec/day at 22°C

working $0^{\circ}\text{C} \div +50^{\circ}\text{C}$ / storage $-25^{\circ}\text{C} \div +70^{\circ}\text{C}$ - TEMPERATURE

WORKING CYCLE daily 96 pins - Quartz movement - BACK-UP TIME 100 h

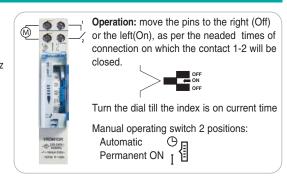
- MINIMUM SETTING INTERVAL 15 min

- TERMINAL WIRES 2x2,5 mm² - PROTECTION DEGREE IP20

- Sealable front cover

- SWITCHING CONTACT - DIMENSIONS / WEIGHT Kg.

16(4)A 250V AC 1 DIN module / 0,08



DIGITAL TIME SWITCH

1ROM2ER



- STANDARDS
- BURDEN
- AUXILIARY POWER SUPPLY
- RELAY (CHANGE OVER CONTACT)
 - characteristics
 - max power
 - max voltage
 - max current
- MINIMUM SETTING INTERVAL
- TEMPERATURE
- PRECISION
- BATTERY DURATION WITHOUT POWER
- DIMENSIONS / WEIGHT Kg.

IEC669 - 1; EN60730

2 VA

230 V - Frequency 50/60 Hz

1A: 10A/250VAC, 16A/30VDC 1C: 10A/250VAC, 12A/30VDC

300W, 2500VA 110VDC, 380VAC

16A (Resistive) - 8A (Inductive)

1 minute

+/- 1 minute / month

300 h

2 DIN modules / 0.20



230V - 50/60 Hz

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 "\$\theta+" 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 <u>first</u> "OFF" programming and enter into the <u>second</u> "ON" programming. Repeat items 2 and 3 to set <u>the rest</u> of "ON" and "OFF" programming.

5) After the end of the programmings, push button "\(\mathbb{O}\mathbb{+}\)" (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 (3)+ (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.

ASTRONOMICAL TIME SWITCHES

ONE OUTPUT RELAY

Revalco. 2005 8122 18LLX 18LLX NEW

1RLUX

The device is an electronic time-switch to manage electrical applicances from sunset to dawn, according to the geographic area set. It performs type 1B actions and is designed for household and similar purposes in environments with normal pollution degree and overvoltage category III. Reference standards: Compliance with Community Directives 2006/95/CEE (Low Voltage - LVD) and 2004/108/CE (Electromagnetic compatibility E.M.C.)is declared with reference to the following standards: CEI EN60730-2-7 E.M.C.: CEI EN 61000-6-1 / CEI EN 61000-6-3

- **POWER SUPPLY VOLTAGE** 230 V AC (-15%... +10%) 50/60Hz

- ABSORPTION 8 VA (2W)

- OUTPUT 1 relay 16 (10) A / 250V AC incandescent / halogen 15

incandescent / halogen 1500 W 240V AC fluorescent 600 W 240V AC

ANNUAL CLOCK WITH CALENDAR Clock precision: +/- 1s /day (20°C)

UP TO 31-12-2172 Precision of sunrise/sun

Precision of sunrise/sunset calculation: +/- 1minute

Programming resolution: 1 minute-Charge reserve (with lithium battery)

4 years approx. (if not powered)

- LCD REAR LIGHTED DISPLAY

- Automatic charge of summer/winter time with settable change mode

- SIMPLIFIED PROGRAMMING IN TWO LANGUAGES: Italian: provincial capital

English: latitude, longitude, time zone

- OPERATING TIMER FOR EACH CHANNEL max 99999 h

- Daily update of sunrise/sunset times

- Manual forcing of the temporary and permanent outputs

- OPERATING TEMPERATURE 0...+50 °C

- MATERIAL Class II conformity EN 60335
- RELATIVE UMIDITY 10%...90% non condensing

- STORAGE TEMPERATURE -10...+70 C

PROTECTION LEVEL
 IP20 at the connector terminals IP41 on the front panel
 Insulation reinforced between live parts and accesible parts and between power supply and load

- DIMENSIONS / WEIGHT Kg. 2 DIN /

SETTING THE ASTRONOMICAL PARAMETERS: This operation is important as the instants of sunrise of sunset in calculated by device appliance depend not only on the date set but also on the geographical location of installation. The procedures to be followed for this setting depend on whether the device is to be installed in Italy or abroad. If the device is to be installed in Italy the procedure is simplified as it is not necessary to know the latitude or longitude of the place of installation, but merely to enter the code for the Italian province (see the "Province code / Capital table). When the device is to be installed outside Italy, it is necessary to know the geographical data (latitude and longitude).



Power Supply

1 2





1RLUX2

The device is an electronic time-switch to manage electrical applicances from sunset to dawn, according to the geographic area set. It performs type 1B actions and is designed for household and similar purposes in environments with normal pollution degree and overvoltage category III. Reference standards: Compliance with Community Directives 2006/95/CEE (Low Voltage - LVD) and 2004/108/CE (Electromagnetic compatibility E.M.C.)is declared with reference to the following standards: CEI EN60730-2-7 E.M.C.: CEI EN 61000-6-1 / CEI EN 61000-6-3

- **POWER SUPPLY VOLTAGE** 230 V AC (-15%... +10%) 50/60Hz

- ABSORPTION 8 VA (2W)

- **OUTPUT** 2 relays 16 (10) A / 250V AC

Relay 1 astronomical handling relay output with pre-set programming

(programmes: ON, OFF, PF, PH, P1, P2)

Relay 2 astronomical handling relay output (ON from sunset to sunrise)

- CONTACT CAPACITY FOR LAMPS incandescent / halogen 1500 W 240V AC

fluorescent 600 W 240V AC

ANNUAL CLOCK WITH CALENDAR Clock precision: +/- 1s /day (20°C)

UP TO 31-12-2172 Precision of sunrise/sunset calculation: +/- 1minute

Programming resolution: 1 minute-Charge reserve (with lithium battery)

4 years approx. (if not powered)

- LCD REAR LIGHTED DISPLAY
- Weekly event programming
- Automatic charge of summer/winter time with settable change mode
- SIMPLIFIED PROGRAMMING IN TWO LANGUAGES: Italian: provincial capital

English: latitude, longitude, time zone

- Handling of consecutive holiday periods up to 99 days

- OPERATING TIMER FOR EACH CHANNEL max 99999 h for 11 years approx

- Programme memory (EEPROM)

- Daily update of sunrise/sunset times

- Manual forcing of the temporary and permanent outputs

- OPERATING TEMPERATURE 0...+50 °C

- MATERIAL Class II conformity EN 60335 - RELATIVE UMIDITY 10%...90% non condensing

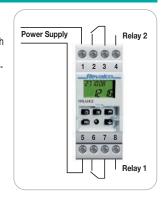
- STORAGE TEMPERATURE -10...+70 C

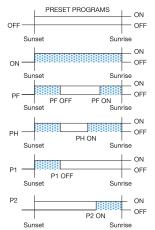
- PROTECTION LEVEL IP20 at the connector terminals IP41 on the front panel

- Insulation reinforced between live parts and accesible parts and between power supply and load

- DIMENSIONS / WEIGHT Kg. 2 DIN /

SETTING THE ASTRONOMICAL PARAMETERS: This operation is important as the instants of sunrise of sunset in calculated by device appliance depend not only on the date set but also on the geographical location of installation. The procedures to be followed for this setting depend on whether the device is to be installed in Italy or abroad. If the device is to be installed in Italy the procedure is simplified as it is not necessary to know the latitude or longitude of the place of installation, but merely to enter the code for the Italian province (see the "Province code / Capital table). When the device is to be installed outside Italy, it is necessary to know the geographical data (latitude and longitude).





CREPUSCULAR SWITCH

WITH EXTERNAL PROBE



1RLUX1

The modular crepuscolar swith is an electronic device to manage electrical applicances from sunset to dawn. It performs type 1B actions and is designed for household and similar purposes in environments with normal pollution degree and overvoltage category III. Reference standards: Compliance with Community Directives 2006/95/CEE (Low Voltage - LVD) and 2004/108/CE (Electromagnetic compatibility E.M.C.) is declared with reference to the following standards: CEI EN60669-2-1 (97) E.M.C.: CEI EN55014 (94 / CEI EN 55104 (96)

- POWER SUPPLY VOLTAGE 230 V AC (-15%... +10%) 50/60Hz

- ABSORPTION 6 VA (1W)

OUTPUT 1 relay 16 (10) A / 250V AC

CONTACT CAPACITY FOR LAMPS incandescent / halogen fluorescent / halogen 400 W 240V AC

- SIGNALLING
- SENSITIVITY from 10 to 100 lux
- INTERVENTION TIME 20 sec approx.

- ZERO HYSTERESIS

- EXTERNAL PROBE included

Protection level: IP65

Operating temperature: -20C ...+50C

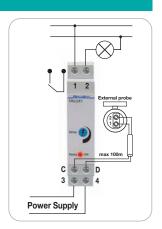
Maximum distance between probe and device: 100m

- OPERATING TEMPERATURE 0...+50 C - STORAGE TEMPERATURE -40...+70 C

- MATERIAL Class II conformity EN 60335 - RELATIVE UMIDITY 20%...90% non condensing

PROTECTION LEVEL
 IP20 at the connector terminals IP41 on the front panel
 Insulation reinforced between live parts and accesible parts and between power supply and load

- DIMENSIONS / WEIGHT Kg. 1 DIN /



MULTIVOLTAGE RELAYS

ONE OUTPUT RELAY



1RMR1

Wide voltage coil range for every application in VDC or VAC, range from 12....400VDC and 12....270VAC for electrical maintenance or new installation not depending by the voltage supply and electrical photovoiltaic applications. Low consumption 0.4W for pick up time; 0.2W all working time

- SAFETY APPROVALS - STANDARD

- COIL CONSUMPTION

- NOMINAL FREQUENCY VOLTAGE

- TEMPERATURE

- RELAY

- CONTACT RATING (Inom)

- DIELECTRIC STRENGTH

EN61010-1 / EN61810-1..ec..-2

<0.2W TRMS for all voltage supply DC or from 49Hz to 600Hz

operative range -20....+55°C

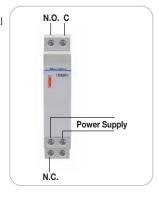
storage -25....+70°C led light = relay on

8 A, AC resistive load 250VAC

6 A, DC resistive load 125VDC

5000 Vrms





TWO OUTPUT RELAYS



1RMR2

Wide voltage coil range for every application in VDC or VAC, range from 12....400VDC and 12....270VAC for electrical maintenance or new installation not depending by the voltage supply and electrical photovoiltaic applications. Low consumption 0.4W for pick up time; 0.2W all working time

- SAFETY APPROVALS - STANDARD

- COIL CONSUMPTION

- NOMINAL FREQUENCY VOLTAGE

- TEMPERATURE

- RELAY

- CONTACT RATING (Inom)

- DIELECTRIC STRENGTH

EN61010-1 / EN61810-1..ec..-2 <0.2W TRMS for all voltage supply

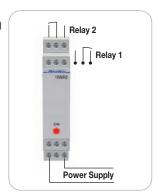
DC or from 49Hz to 600Hz operative range -20....+55°C

storage -25....+70°C led light = relay on

8 A, AC resistive load 250VAC

6 A, DC resistive load 125VDC 5000 Vrms





IMPULSE RELAYS

ELECTRONIC 1REP



- STANDARDS - BURDEN

- FREQUENCY - AUXILIARY POWER SUPPLY

TEMPERATURES

- SIGNALLING LED

- FUNCTION SELECTOR

NOMINAL CURRENT

- MAXIMUM CURRENT

- POWER

- N.O. CONTACT RELAY

- DIMENSIONS / WEIGHT kg.

EN60669 < 2W 40 ÷ 60 Hz 230V(±10%)

operating 0°C ÷ +50°C / storage -25°C ÷ +70°C red led light-on = light-on command carried out

clockwise: always OFF - Automatic 1

16A

2 times the In (equal to 32A) for 0,5 seconds

2300W AC1 - 1500W AC3

16A - 250VCA AC1 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

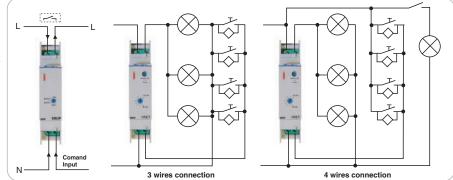
- Assume to have a light installation with double lamp. It is possible to connect one electronic step-step relay in "AUTO 1" mode to the first lamp and another in "AUTO 2" mode to the second lamp with a push-button command. By a short pressure light-on and light-off one lamp only (low brightness) or 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.



- Automatic 2

- always ON

ELECTROMECHANICAL

RRI RRI012-12 RRI012-24 | RRI012-230 | RRI022-12 RRI022-24 RRI022-230 RRI032-12 | RRI032-24 |

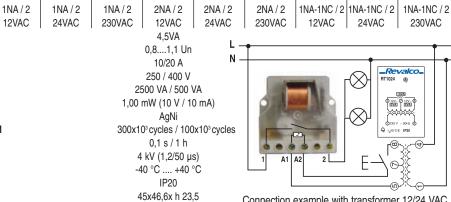
CONTACT NUMBERS / SEQUENCE NUMBERS

COIL DATA: Nominal voltage 50 Hz (Un)

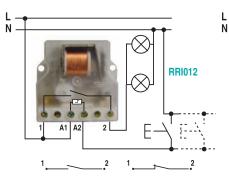
Power

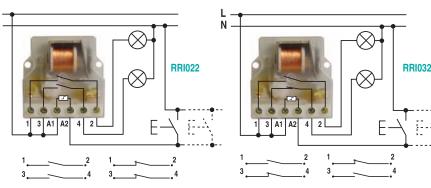
Range

- NOMINAL CURRENT / MAX PEAK CURRENT
- NOMINAL VOLTAGE / MAX SWITCHING VOLTAGE
- NOMINAL LOAD AC1 / AC15 (230V AC)
- MINIMUM SWITCHING LOAD
- **CONTACT MATERIAL**
- MECHANICAL / ELECTRICAL LIFE AT NOMINAL LOAD AC1
- MIN/MAX IMPULSE DURATION (EN60669)
- **INSULATION BETWEEN COIL AND CONTACTS**
- **TEMPERATURE**
- **PROTECTION**
- **DIMENSIONS**



Connection example with transformer 12/24 VAC





215

STAIRS LIGHT ELECTRONIC RELAY

1RET / 1RET-A



type 1RET =YES - END-TIME NOTICE type 1RET-A=NO this model is without pre-allarm notis

STANDARDS EN60669 - BURDEN < 2W

- AUXILIARY POWER SUPPLY / FREQUENCY 230V(±10%) / 40 ÷ 60 Hz

- 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 / MAXIMUM CURRENT 16A / 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.

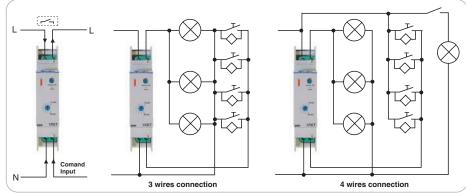


- Functioning time can be selected between 15 sec to 15 min turning the proper rotative selector.
- · By pressing one of the connected push-button, lamp will light-on. Further pressure, with light-on lamp, generates a new cycle of light-on time extending the brightness time.
- . This relay forecast the 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 pressu-

re 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 con-
- 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.



MODULAR CURR ENT SOCKET

BIVALENT ITALIAN / SCHUKO



1RPIT

For connection of non modular devices and tools into switchoards and panels

NOMINAL VOLTAGE Un NOMINAL CURRENT In 16A - FREQUENCY 50/60 Hz - BURDEN 0.6W

- PROTECTED ALVEOLI **POZIDRIV® TERMINALS**

- SECTION OF CABLES min 2.5mm² / max 16mm²

- TORQUE 1,2Nm

- TEMPERATURE storage -40....+70 °C / working -25....+35 °C

- PROTECTION DEGREE IP20 - STANDARDS **CEI EN 60715** - DIMENSIONS 2,5 DIN modules

SAFETY BELL TRANSFORMERS (intermittent use)

- STANDARDS

NOMINAL FREQUENCY

PROTECTION CLASS

EN61558-1-2-8 50 Hz

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- MAX AMBIENT TEMPERATURE THERMIC AND SHORT-CIRCUIT PROTECTION 40°C

INSULATION CLASS

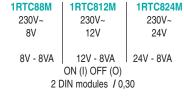
IP20

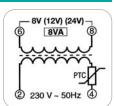
- SECONDARY VOLTAGE REFERRED TO THE NOMINAL SECONDARY CURRENT -15%

RESISTANT TO THE SHORT-CIRCUIT SERIES WITH PTC AND SWITCH



- POWER SUPPLY terminals 2 and 4
- **SECONDARY VOLTAGES**
- NON CONTINUOUS POWER ON THE SECONDARY terminals 6 and 8
- ON / OFF SWITCH
- **DIMENSIONS / WEIGHT Kg.**





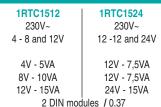
RESISTANT TO THE SHORT-CIRCUIT SERIES WITH PTC

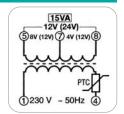


- POWER SUPPLY terminals 1 and 4
- SECONDARY VOLTAGES
- NON CONTINUOUS POWER ON THE SECONDARY

terminals 7and 8 terminals 5 and 7 terminals 5 and 8

- DIMENSIONS / WEIGHT Kg.



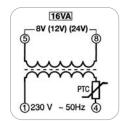




- POWER SUPPLY terminals 1 and 4
- SECONDARY VOLTAGES
- NON CONTINUOUS POWER ON THE SECONDARY terminals 5 and 8
- DIMENSIONS / WEIGHT Kg.

1RTC168	1RTC1612	1RTC1624
230V~	230V~	230V~
8V	12V	24V

8V - 16VA | 12V - 16VA | 24V - 16VA 2 DIN modules / 0,38





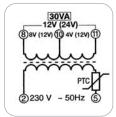
- POWER SUPPLY terminals 2 and 5
- SECONDARY VOLTAGES
- NON CONTINUOUS POWER ON THE SECONDARY

terminals 10 and 11 terminals 8 and 10 terminals 8 and 11

- DIMENSIONS / WEIGHT Kg.



3 DIN modules / 0,51



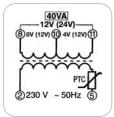


- POWER SUPPLY terminals 2 and 5
- SECONDARY VOLTAGES
- NON CONTINUOUS POWER ON THE SECONDARY

terminals 10 and 11 terminals 8 and 10 terminals 8 and 11

- DIMENSIONS / WEIGHT Kg.

1RTC4012	1RTC4024
230V~	230V~
4 - 8 and 12V	12 -12 and 24V
4V - 13VA	12V - 20VA
8V - 27VA	12V - 20VA
12V - 40VA	24V - 40VA
3 DIN modules / 0.51	



STANDARD SERIES

- STANDARDS
- NOMINAL FREQUENCY
- PROTECTION CLASS

IP20

- EN61558-1-2-8 INSULATION CLASS 50 Hz - MAX AMBIENT TEMP
 - MAX AMBIENT TEMPERATURE

- SECONDARY VOLTAGE REFERRED TO THE NOMINAL SECONDARY CURRENT -15%

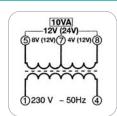


- POWER SUPPLY terminals 1 and 4
- SECONDARY VOLTAGES
- NON CONTINUOUS POWER ON THE SECONDARY

terminals 7 and 8 terminals 5 and 7 terminals 5 and 8

- DIMENSIONS / WEIGHT Kg.

IRT 1012	IR11024	
230V~	230V~	
4 - 8 and 12V	12 -12 and 24V	
4V - 3,3VA	12V - 5VA	
8V - 6,6VA	12V - 5VA	
12V - 10VA	24V - 10VA	
2 DIN modules / 0.34		



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40°C



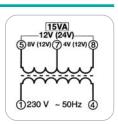
- POWER SUPPLY terminals 1 and 4
- SECONDARY VOLTAGES
- NON CONTINUOUS POWER ON THE SECONDARY

terminals 7 and 8 terminals 5 and 7 terminals 5 and 8

- DIMENSIONS / WEIGHT Kg.

1RT1512	1RT1524
230V~	230V~
4 - 8 and 12V	12 -12 and 24V
4V - 5 VA	12V - 7,5 VA
8V -10 VA	12V - 7,5 VA
12V - 15 VA	24V -15 VA

2 DIN modules / 0,36





- POWER SUPPLY terminals 2 and 5
- SECONDARY VOLTAGES
- NON CONTINUOUS POWER ON THE SECONDARY

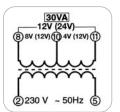
terminals 10 and 11 terminals 8 and 10 terminals 8 and 11

- DIMENSIONS / WEIGHT Kg.

1RT3012	1RT3024
230V~	230V~
1 - 8 and 12V	12 -12 and 24

4V - 10VA 12V - 15VA 8V - 20VA 12V - 15VA 24V - 30VA 12V - 30VA

3 DIN modules / 0,50





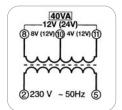
- POWER SUPPLY terminals 2 and 5
- SECONDARY VOLTAGES
- NON CONTINUOUS POWER ON THE SECONDARY

terminals 10 and 11 terminals 8 and 10 terminals 8 and 11

- DIMENSIONS / WEIGHT Kg.

1K14012	1R14024
230V~	230V~
4 - 8 and 12V	12 -12 and 24V
4V - 13VA	12V - 20VA
8V - 27VA	12V - 20VA
12V - 40VA	24V - 40VA

3 DIN modules / 0,51



SAFETY BELL TRANSFORMERS (continuous use)

- STANDARDS
- NOMINAL FREQUENCY
- PROTECTION CLASS

EN61558-1-2-6

IP20

- INSULATION CLASS

- MAX AMBIENT TEMPERATURE

25°C

- 50 Hz
- SECONDARY VOLTAGE REFERRED TO THE NOMINAL SECONDARY CURRENT

RESISTANT TO THE SHORT-CIRCUIT SERIES WITH PTC



- POWER DISSIPATION
- POWER SUPPLY terminals 2 and 5
- SECONDARY VOLTAGES
- CONTINUOUS POWER ON THE SECONDARY terminals 8 and 10

terminals 8 and 11

- DIMENSIONS / WEIGHT Kg.

1RSTC 15

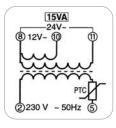
3 W

230V~ / 50 Hz 12V and 24V

12V - 15VA

24V - 15VA

3 DIN modules / 0,45





- POWER DISSIPATION
- POWER SUPPLY terminals 2 and 5
- SECONDARY VOLTAGES
- CONTINUOUS POWER ON THE SECONDARY terminals 8 and 10

terminals 8 and 11

- DIMENSIONS / WEIGHT Kg.

1RSTC 25

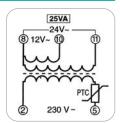
4 W

230V~ / 50 Hz 12V and 24V

12V - 25VA

24V - 25VA

3 DIN modules / 0,58





- POWER DISSIPATION
- POWER SUPPLY terminals 3 and 6
- SECONDARY VOLTAGES
- CONTINUOUS POWER ON THE SECONDARY

terminals 11 and 13 terminals 11 and 14

- DIMENSIONS / WEIGHT Kg.

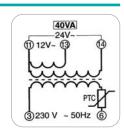
1RSTC 40

230V~ / 50 Hz

12V and 24V

12V - 40VA

24V - 40VA 4 DIN modules / 0,82





- POWER DISSIPATION
- POWER SUPPLY terminals 1 and 2
- **SECONDARY VOLTAGES**
- CONTINUOUS POWER ON THE SECONDARY

terminals 13 and 14 terminals 13 and 16

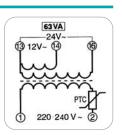
- DIMENSIONS / WEIGHT Kg.

1RSTC 63

230V~ / 50 Hz 12V and 24V

12V - 63VA 24V - 63VA

6 DIN modules / 1,30



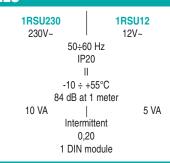
BELLS - BUZZERS

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



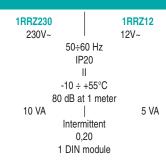
- POWER SUPPLY
- FREQUENCY
- PROTECTION LEVEL
- INSULATION CLASS
- TEMPERATURE
- ACOUSTIC POWER
- BURDEN
- USE
- WEIGHT Kg.
- DIMENSIONS



BUZZERS



- POWER SUPPLY
- FREQUENCY
- PROTECTION LEVEL
- INSULATION CLASS
- TEMPERATURE
- ACOUSTIC POWER
- BURDEN
- USE
- WEIGHT Kg.
- DIMENSIONS





BELLS AND BUZZERS WITH TRANSFORMERS



Transformer with bell Transformer with buzzer Transformer with bell and buzzer

- POWER SUPPLY
- FREQUENCY
- PROTECTION LEVEL
- INSULATION CLASS
- TEMPERATURE
- SECONDARY VOLTAGE
- Secondary voltage to the nominal secondary current
- PRIMARY CURRENT OF MAGNETIZATION
- POWER ON SECONDARY 24V (terminals 5 and 8)
- POWER ON SECONDARY 24V (terminals 5 6 and 6 8)
- ACOUSTIC POWER OF BELL
- ACOUSTIC POWER OF BUZZER
- WEIGHT kg.
- DIMENSIONS

1RTSU

6,1 VA

80 dB ad 1m

0,40

1RTRZ

01/

230V~ 50Hz IP20

II -10 ÷ +55°C

24V~ -15% max

30 mA max 6,1 VA

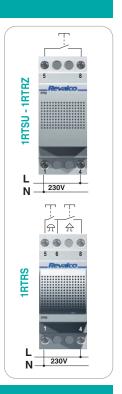
6,1

70 dB ad 1m 0,40

2 DIN modules

3,8 VA+3,8 VA 80 dB ad 1m 70 dB ad 1m 0.50

1RTRS



3 TONES ELECTRONIC BELLS



1RTRS

1RSUE

- POWER SUPPLY

- FREQUENCY

- PROTECTION LEVEL

- INSULATION CLASS

- TEMPERATURE

- ACOUSTIC POWER

- BURDEN

- WORK

- WEIGHT kg.

- DIMENSIONS

- While sounds, instrument emits a red light also

230V~ 50÷60 Hz

IP20 II

> -10 ÷ +55°C 100 dB at 1 meter

5 VA

Intermittent 0,20

2 DIN modules

