



backlit display

The new range of ASTRO-LUX-TIME switches represents the solution for managing loads based on astronomical cycle, time or brightness and/or their combinations.

The INNOVATIVE solution, one product for the following functions:

- Astronomical switch
- Time switch
- Twilight switch

The ASTRO-LUX-TIME switches can run ASTRONOMICAL, TWILIGHT and TIME PROGRAMS or COMBINATIONS OF THESE TO MEET DISPARATE FUNCTIONAL REQUIREMENTS.

The ASTRO-LUX-TIME switches are a **PERRY** patent.

### SPECIAL FEATURES

The battery can be replaced WITHOUT UN-INSTALLING THE PRODUCT

- Large LCD display with WHITE LED backlight
- Memory capacity: 45 ON+OFF programs
- Hinged and sealable cover
- 6 mm<sup>2</sup> terminals
- Terminals with captive screws
- Simple, intuitive programming
- Charge reserve: 6 years
- Closing of the contact with ZERO CROSSING logic
- Minimum intervention: 1 minute

### PROGRAMMING

SELECTION	DATA	OFFSET (IF ANY)	DISPLAY OF OPERATING PRODUCT
ASTRO/LUX/TIME	input coordinates available in the instruction manual or on smartphone	anticipation / delay ON-OFF	

## ASTRO

It's an astronomical switch



## LUX

It's a twilight switch



## TIME

it's a time switch



The only multifunctional product!



**110 4091**  
Astronomical twilight time switch 1 channel - 2 DIN

**110 4291**  
Astronomical twilight time switch 2 channels - 2 DIN

**ACCESSORIES**

**1PR 6092 Outdoor cadmium-free probe**



Installation outdoors on wall and/or pole  
Connection with cables measuring between 0.75 and 2.5 mm<sup>2</sup>  
Cabling with 4-8 mm shielded cable

UV-resistant opal housing  
Protection degree IP 20  
Dimensions of sensor (L x W x H) 28 x 48 x 56 mm

The probe is not included in the packing, it must be purchased separately.

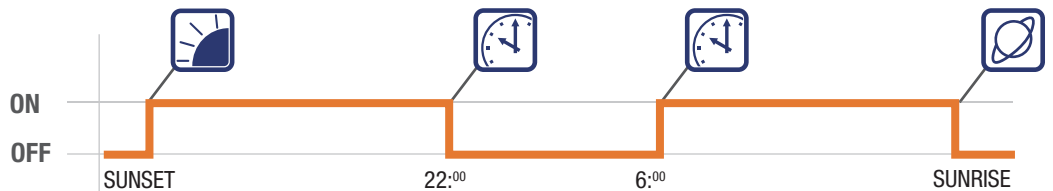


**1PR EMD01 "EMD" programming key**

External memory key for downloading and uploading programs

**1 SHOP SIGNBOARD - Operation with twilight / time / Astro logic**

- ON** TWILIGHT
- OFF** TIME h 22:00
- ON** TIME h 6:00
- OFF** ASTRONOMIC



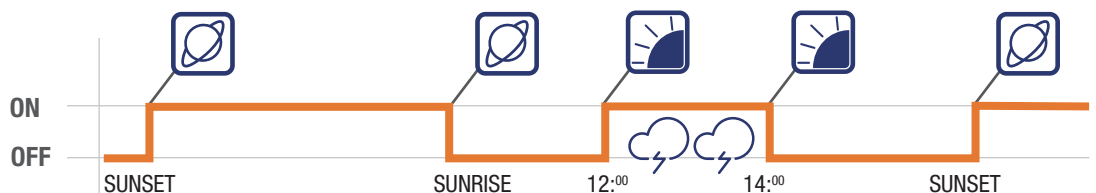
**2 CONDOMINIUM GATE OPENING - Operation with time logic**

- ON** TIME h 7:30
- OFF** TIME h 9:00



**3 PUBLIC / SQUARE / PARKING LIGHTING - Operation with astronomical logic and daytime intervention in twilight mode in case of storm**

- ON** ASTRONOMIC
- OFF** ASTRONOMIC



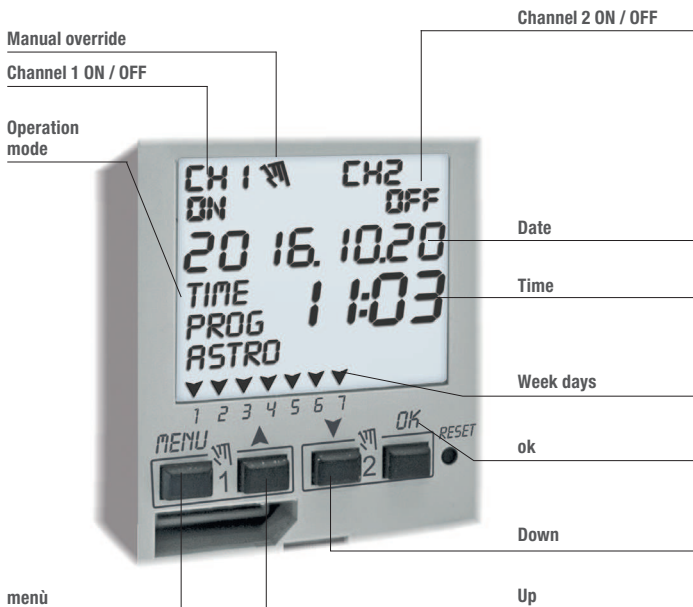
### TECHNICAL SPECIFICATIONS

110	With automatic daylight saving time change	
	4091	4291
Number of output contacts	1	2
Weekly programming	●	●
Automatic summer time change	●	●
Backlit display	●	●
Replaceable battery	●	●
Astronomical	●	●
Twilight	●	●
Time	●	●
Input for twilight sensor	●	●
Twilight sensor	1PR 6092 accessory	1PR 6092 accessory
Key lock	●	●

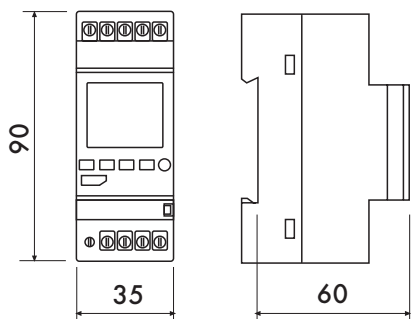
Power supply	230V a.c.+/-10%, 50Hz
Nominal data contats	16 (2) A / 250V a.c.
Max number of programs (ON+OFF)	45
Minimum ON-OFF engaging time	1 minute
Details shown on	1" 1/3 backlit LCD display
Max switching power	3500 VA (for each contact)
Power: LP incandescence	2300 W
Power: LP fluorescent tubes uncompensated	1000 W
Power: LP fluorescent tubes in parallel, compensated	500W (total capacity 70 µF)
Power: compact LP fluorescent tubes	600W
Max size of cables at terminals	6 mm <sup>2</sup>
Protection rating (IP)	IP 20 - IP 40 (rear switchboard)
Type of output	terminals with captive screws
Insulation class	II □
Relay ON / OFF signal	ON / OFF on LCD display
Power reserve	6 years
Type of reserve	CR2032 replaceable battery
Time tolerance	± 0.5 sec / day
Operating temperature range	-20°C / +60°C
Storage temperature	-30°C / +80°C
Type of installation	DIN rail / rear switchboard
Housing	thermoplastic - RAL 7035 grey
Type of use	civil / service / industrial
Controls	programming keys, ON / OFF manual override key
Precision time setting	digital in hours / minutes
Cambio ora legale automatica	for 4 geographic areas
Digital programming	in hours / minutes
Dimensioni (L x W x H) mm	35 x 60 x 30

The large backlit display allows for a clear and immediate reading of the relays status, current time and day and any manual override.

### DISPLAY AND KEYS FUNCTION



### DIMENSIONS (mm)



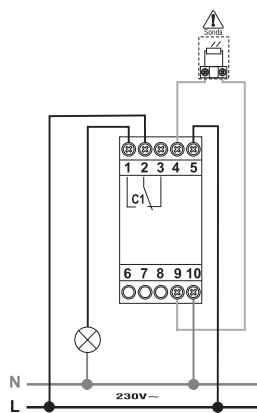
Front

Side

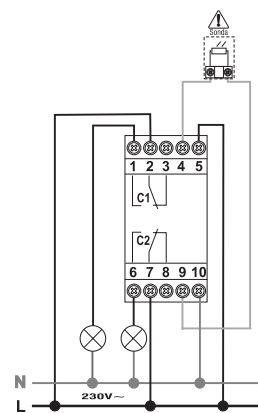
### REPLACEABLE BATTERY FROM FRONT



### WIRING DIAGRAM



110 4091 1 channel



110 4291 2 channels



- UNIQUE PRODUCT**  
for all necessities
- REPLACEABLE BATTERY**  
from front (Time saving!)
- ZERO CROSSING**
- POSSIBILITY TO ANTICIPATE / DELAY**  
astronomical interventions
- KEY (option)**  
to transfer the programs
- BACKLIT**