

Astronomical time switches

Time switch to manage electric utilities between sunrise and sunset according to the set geographical area. Through virtual trippers it's possible to program one or more night-intervals during which the load stays unactive. Particularly suitable to light shops, luminous signs, fountains, etc. The cover on the front of the device allows for the replacement of the depleted battery.



- 1 Backlit display for viewing of programming, hour and relay status
- 2 Container: 1 DIN module
- 3 Text guide
- 4 24-hours dial with virtual trippers
- 5 Cover for replacement of the depleted battery

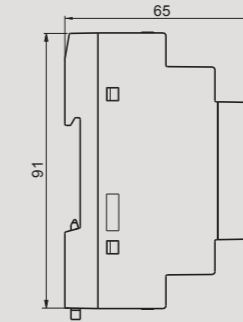
Micro AST

DIMENSIONS (mm)

Front view

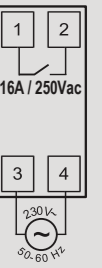


Side view



CONNECTION DIAGRAM

Diagram



TIME MANAGEMENT

TECHNICAL INFORMATION

DIGITAL ASTRONOMICAL TIME SWITCHES

- Power supply: 230 V AC 50/60 Hz
- Available programming:
 - P1 fixed with possibility of night-switching off of minimum 30 minutes
- Sunrise and sunset times are calculated according to phone prefix (for Italy) or geographical coordinates
- Display of the sunset/sunrise times calculated by the device
- Update of sunrise/sunset times: ± 120 minutes
- Summertime automatic update
- Manual override of the relay (temporary or permanent)
- Battery life: 4 years (replaceable just removing the cover)
- Depleted battery signalling
- Relay switching only with power supply



Program



- switch ON and switch OFF always visible
- night-switch OFFs of minimum 30 minutes
- each switch ON/OFF of load occurs exactly at the calculated sunset/sunrise-time (minut resolution)

GENERAL CHARACTERISTICS

Power supply	V AC	230 (-15% ÷ +10%)	
Frequency	Hz	50 / 60	
Absorption	VA	5.5	
	W	1	
Output		1 relay normally open	
Capacity at 250 V AC	A	16 (10)	
	Fluorescent lamps (at 240V)	W	600
	Incandescent lamps (at 240V)	W	1500
	Halogen lamps (at 240V)	W	1500
Battery life		4 years (lithium battery CR-1632)	
Charge reserve (for battery replacement)		1 minute	
Switches in case of power-failure		NO	
Programming resolution for night-switch OFFs		30 minutes	
Operating precision		± 1 second/day at 25°C	
Operating temperature	°C	-20 ÷ +50	
Storage temperature	°C	-10 ÷ +70	
Operating humidity		20 ÷ 90% non condensing	
Container		1 DIN module	
Degree of protection		IP20	

Code	Model	Description	nr. relays
VE762300	Micro AST	Astronomical time switch with simplified programming	1

REFERENCE STANDARDS

Compliance with Community Directives: 2006/95/EC (Low voltage) and 2004/108/EC (E.M.C.) is declared with reference to the following standards:
• Safety and Compatibility E.M.: EN 60730-2-7