

Astronomical twilight switches

AST Line

Programmable switch to manage electric utilities over time between sunset and sunrise time calculated on the basis of the set geographical area. Particularly suitable to light shops, luminous signs, fountains, etc.



- 1 Backlit LCD display to view time, day, month, year and relay status
- 2 2 DIN modular version
- 3 Sealable cover

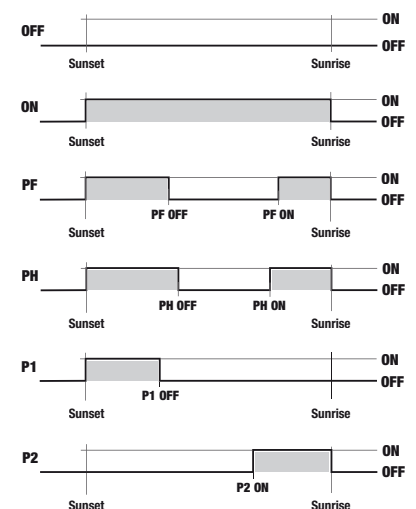
- Six preset programs:
 - OFF load off all night long
 - ON load connected from sunset to sunrise
 - PF load connected from sunset to sunrise and partially off during the night
 - PH as PF program but with different times (for Sundays and holidays)
 - P1 load connected from sunset and deactivation at a preset time
 - P2 load connected to a preset time (after sunset) and deactivation at sunrise



ASTRONOMICAL TWILIGHT SWITCH

- Programming of time and geographical area of installation
- Daily automatic regulation of sunrise and sunset time
- Summertime automatic update
- Two independent relay outputs:
 - OUT 1 load management with preset programming
 - OUT 2 fixed load management not programmable
- Connectable load:
 - Incandescent/halogen lamps: 1500 W 240 V AC
 - Fluorescent lamps: 600 W 240 V
- Power supply: 230 V AC (-10% ÷ +15%) - 50/60 Hz
- Charge reserve if not power supplied: 4 years (lithium battery)
- Correction of calculated sunrise and sunset time
- Possibility of setting an alternated operation of the outputs
- Manual forcing of outputs (temporary or permanent)

Preset programs

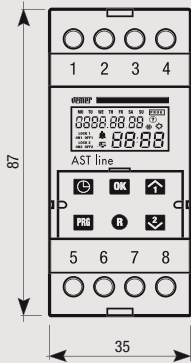


Code	Model	Description
VP876700	AST Line	Astronomical twilight switch

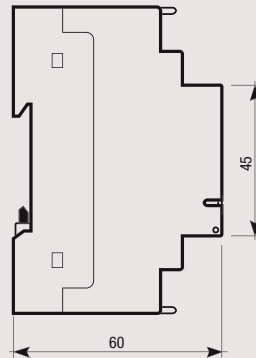
DIMENSIONS (mm)

CONNECTION DIAGRAM

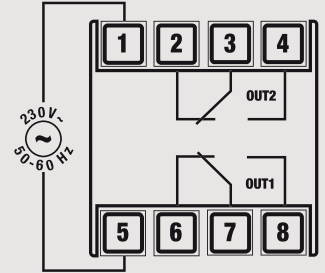
Front view



Side view



Diagram



TIME MANAGEMENT

TECHNICAL INFORMATION

GENERAL CHARACTERISTICS

Power supply	V AC	230 (-10% ÷ +15%)
Frequency	Hz	50 / 60
Power consumption	VA	8
Output		2 relays in monostable change-over
Relay capacity (250 V AC)	A	16 (10)
Fluorescent lamps	W	600
Incandescent/halogen lamps	W	1500 (240 V)
Automatic astronomical regulation		every day
Charge reserve		4 years (lithium battery)
Memory		Non-volatile

Summertime automatic update		YES
Operating temperature	°C	0 ÷ +50
Storage temperature	°C	-10 ÷ +70
Time precision		< ± 1 s/day (20 °C)
Precision calculation sunrise and sunset		± 1 minute
Device class		II
Container		2 DIN modules
Degree of protection	IP	20 connection terminals
Front protection degree	IP	40

REFERENCE STANDARDS

Compliance with Community Directives: 73/23/CEE mod. from 93/68/CEE (Low Voltage) 89/336/CEE mod. from 92/31/CEE and 93/68/CEE (E.M.C.) is declared with reference to the following standards: • Safety: CEI EN 60730-2-7 • E.M. Compatibility: EN 55014-2 / EN 55014-1