

Astronomical twilight switches

AST Lux / AST One

Programmable switches to turn on electric utilities between sunset and sunrise.
Ast Lux enables daytime activation in case of poor lighting through external probe.



- 1 Backlit LCD display to view time, day, month, year and relay status
 - 2 2 DIN modular version
 - 3 Sealable cover
- Preset program: ON load connected from sunset to sunrise

ASTRONOMICAL TWILIGHT SWITCH

- Programming of time and geographical area of installation
- Daily automatic regulation of sunrise and sunset time
- Summertime automatic update
- Relay outputs with preset programming
- 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
- Manual forcing of outputs (temporary and permanent)
- Daytime operation (from sunrise to sunset) with remote probe (AST Lux model only)

Preset program

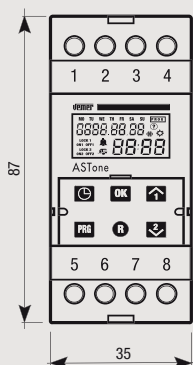


Code	Model	Description
VE148300	AST Lux	Astronomical twilight switch with external probe
VE048500	AST One	Astronomical twilight switch

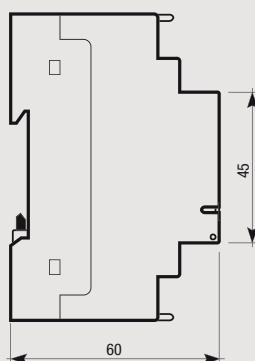
DIMENSIONS (mm)

CONNECTION DIAGRAM

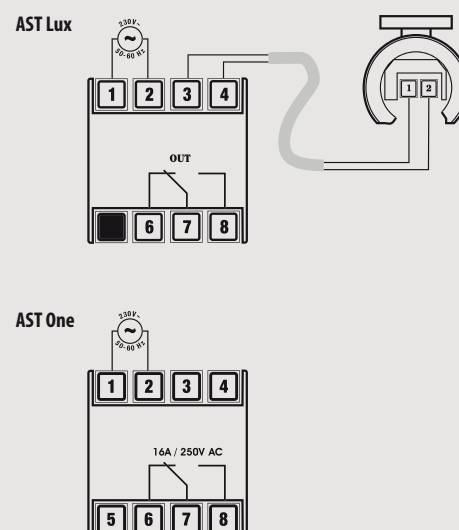
Front view



Side view



Diagram



TECHNICAL INFORMATION

TIME MANAGEMENT

GENERAL CHARACTERISTICS

Power supply	V AC	230 (-10% ÷ +15%)
Frequency	Hz	50 / 60
Power consumption	VA	8
Output		1 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	41

REFERENCE STANDARDS

Compliance with Community Directives: 2006/95/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 harmonised standards: • Safety: CEI EN 60730-2-7 • E.M. Compatibility: EN 61000-6-1 / CEI EN 61000-6-3