

Astronomical Time Switch *Astro*[®] *Mini*

- Astronomical Time Switch in 35mm
- Latitude/Longitude precise to the minute with time zone
- Sunrise/Sunset or Twilight rise/set trigger modes
- Ease of Programming & Navigation
- DST, Offset, OFF Hours, Weekly OFF features
- 12/24 Hour display format
- 6 years Battery reserve
- Easy Manual Override & Keypad Lock feature
- Ideal for Outdoor & Street lighting applications





Ordering Information

Cat. No.	Description
T2DDT7	110 - 240 VAC, Astro Mini, 1 C/O
T2DDT8	110 - 240 VAC, Astro Mini, 1 C/O (With Pre-defined City codes)

Astronomical Time Switch *Astro[®] Mini*



Cat. No.	T2DDT7
Parameters	
Supply Voltage (Φ)	110 - 240 VAC
Supply Variation	-20 % to +10% (of Φ)
Frequency	50/60 Hz
Power Consumption	6 VA
Programming	Based on Latitude/Longitude precise to the minute with time-zone
Trigger Modes	Sunrise/Sunset or Twilight Rise/Set
Offset	00 to 99 minutes (Programmable)
OFF Hours	Programmable
Weekly Off	User Defined
DST	User Defined
Number of Operating Modes	3
Description of Modes	<ul style="list-style-type: none"> • AUTO - As per user defined program settings • ON AUTO - Instant ON up to next Auto Event • AUTO OFF - Instant OFF up to next Auto Event
Minimum Switching Time	1 min
Display	3 Lines Text LCD
Clock Accuracy	± 2 s/day max. over the Operating Temperature range
Power Reserve from Factory	6 Years
Relay Output	1 C/O
Output	
Contact Rating	16A (For 'NO') & 5A (For 'NC') @ 240 VAC / 24 VDC (Resistive), Inductive (cos φ = 0.6) :- 6 A @ 250 VAC
Electrical Life	3x10 ⁴
Mechanical Life	5x10 ⁴
Utilization Category	
AC - 15	Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3/1.5 A
DC - 13	Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.11 A
Operating Temperature	-10°C to + 55°C
Storage Temperature	-10°C to + 60°C
Humidity (Non Condensing)	95% (Rh)
LED Indication	Red LED → Relay ON
Enclosure	Flame Retardant UL94-V0
Dimension (W x H x D) (in mm)	36 X 90 X 65
Weight (unpacked)	110 g
Mounting	Base / DIN rail
Certification	 
Degree of Protection	IP 20 for Terminals, IP 40 for Enclosure

EMI / EMC

Harmonic Current Emissions	IEC 61000-3-2
ESD	IEC 61000-4-2
Radiated Susceptibility	IEC 61000-4-3
Electrical Fast Transients	IEC 61000-4-4
Surges	IEC 61000-4-5
Conducted Susceptibility	IEC 61000-4-6
Voltage Dips & Interruptions (AC)	IEC 61000-4-11
Conducted Emission	CISPR 14-1
Radiated Emission	CISPR 14-1

Environmental

Cold Heat	IEC 60068-2-1
Dry Heat	IEC 60068-2-2
Vibration	IEC 60068-2-6
Repetitive Shock	IEC 60068-2-27
Non-Repetitive Shock	IEC 60068-2-27

Applications

Street lighting applications in cities, industrial townships, university campuses
Lighting automation in sports complex, hotels, parks & other outdoor applications.