

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



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	1 min to 10 hr 59 min (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	
Output	Relay Output	1 C/O
	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	Ed. 3.0 (2005-11) Class A
ESD	IEC 61000-4-2	Ed. 1.2 (2001-04) Level II
Radiated Susceptibility	IEC 61000-4-3	Ed. 3.0 (2006-02) Level III
Electrical Fast Transients	IEC 61000-4-4	Ed. 2.0 (2004-07) Level IV
Surges	IEC 61000-4-5	Ed. 2.0 (2005-11) Level IV
Conducted Susceptibility	IEC 61000-4-6	Ed. 2.2 (2006-05) Level III
Voltage Dips & Interruptions (AC)	IEC 61000-4-11	Ed. 2.0 (2004-03) Level All 7 Levels
Conducted Emission	CISPR 14-1	Ed. 5.0 (2005-11) Class A
Radiated Emission	CISPR 14-1	Ed. 5.0 (2005-11) Class A
Environmental		
Cold Heat	IEC 60068-2-1	Ed. 6.0 (2007-03)
Dry Heat	IEC 60068-2-2	Ed. 5.0 (2007-07)
Vibration	IEC 60068-2-6	Ed. 7.0 (2007-12) 5g
Repetitive Shock	IEC 60068-2-27	Ed. 4.0 (2008-02) 40g, 6ms
Non-Repetitive Shock	IEC 60068-2-27	Ed. 4.0 (2008-02) 30g, 15ms
Applications	Street lighting applications in cities, industrial townships, university campuses Lighting automation in sports complex, hotels, parks & other outdoor applications.	

ORDERING INFORMATION

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