

Digital Time Switch *Astro*[®] *Pro*

- LCD Display with Green backlight
- Precise time programming for Astro / Daily / Weekly / Pulse / Cyclic switching
- Latitude / Longitude Database for 45 Countries and 280 cities
- Settable Latitude / Longitude precise to the minute with time zone
- Sunrise/Sunset or Twilight rise/set trigger modes
- Ease of Day selection in Weekly programming
- 50 ON/OFF programs, 10 Holiday Programs
- Settable DST feature & Password protection
- 16A Single and Dual relay outputs
- Two Separate Relay outputs with independent Programming
- 12/24 Hour Display Format
- 6 Years Battery reserve
- Simple Reset & Manual Override
- Service/Load hours measurement



Ordering Information

Cat. No.	Description
AT1SCDS	240 VAC, Digital Time Switch - Astro Pro+, 1 C/O
AT2DCDS	110-240 VAC, Digital Time Switch - Astro Pro+, 2 C/O
AS1SCDS	240 VAC, Digital Time Switch - Astro Pro, 1 C/O
AS2DCDS	110-240 VAC, Digital Time Switch - Astro Pro, 2 C/O
T2DDT7	110 - 240 VAC, Digital Time Switch - Astro Mini, 1 C/O
T2DDT8	110 - 240 VAC, Digital Time Switch - Astro Mini, 1 C/O (With Pre-defined City codes)

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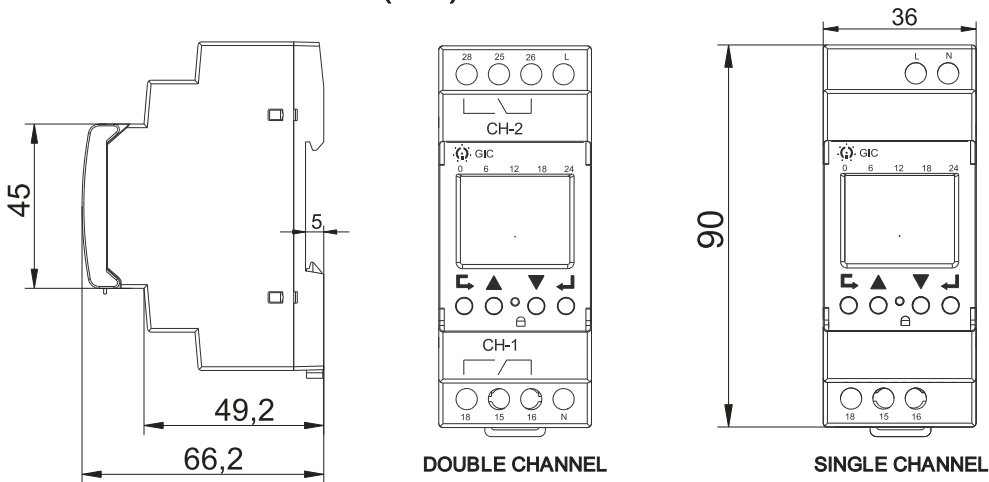


Cat. No.	AT1SCDS (<i>Astro Pro+</i>)	AS1SCDS (<i>Astro Pro</i>)	T2DDT7 (<i>Astro Mini</i>)
Parameters			
Supply Voltage (⊕)	240 VAC		110 - 240 VAC
Supply Variation	-20 % to +10% (of ⊕)		
Frequency	50/60 Hz		
Power Consumption	6 VA		
Programming	Latitude / Longitude Database for 45 Countries and 280 cities		Based on Latitude/Longitude precise to the minute with time-zone
	Precise time Programming for Daily / Weekly / Pulse / Cyclic switching	NA	NA
Number of Programs	50 Each channel + 10 for Holiday	NA	NA
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	5		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 • ON - Continuous ON • OFF - Continuous OFF 		<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 (1s for Pulse)	1 min	1 min
Display	LCD with backlight		3 Lines Text LCD
Clock Accuracy	± 0.5 s/day max. over the Operating Temperature range		± 2 s/day max. over the Operating Temperature range
Power Reserve from Factory	6 Years		
Output	Relay Output	1 C/O	
	Contact Rating	16 A (NO) & 16 A (NC) @ 240 VAC/24 VDC (Resistive)	16A (NO) & 5A (NC) @ 240 VAC / 24 VDC (Resistive)
	Electrical Life	5x10 ⁴	3x10 ⁴
	Mechanical Life	5x10 ⁴	5x10 ⁴
Utilization Category	AC - 15	16 A (NO & NC) at 250 VAC, Cos Ø = 1	Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3/1.5 A
	DC - 13	10 A (NO & NC) at 250 VAC, Cos Ø = 0.6	Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.11 A
Operating Temperature	-15°C to + 55°C		-10 C to + 55 C
Storage Temperature	-20°C to + 70°C		-10 C to + 60 C
Humidity (Non Condensing)	95% (Rh)		
LED Indication	Indication on LCD		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	DIN rail		Base / DIN rail
Certification			
Degree of Protection	IP 20 for Terminals, IP 40 for Enclosure		
EMI / EMC	IEC 61000-3-2	Environmental	
Harmonic Current Emissions	IEC 61000-4-2	Cold Heat	IEC 60068-2-1
ESD	IEC 61000-4-3	Dry Heat	IEC 60068-2-2
Radiated Susceptibility	IEC 61000-4-4	Vibration	IEC 60068-2-6
Electrical Fast Transients	IEC 61000-4-5	Repetitive Shock	IEC 60068-2-27
Surges	IEC 61000-4-6	Non-Repetitive Shock	IEC 60068-2-27
Conducted Susceptibility	IEC 61000-4-11		
Voltage Dips & Interruptions (AC)	CISPR 14-1		
Conducted Emission	CISPR 14-1		
Radiated Emission			

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

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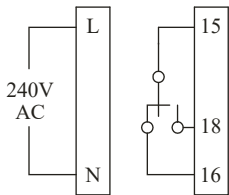
MOUNTING DIMENSION (mm)



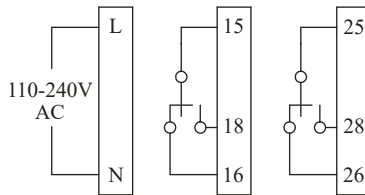
CONNECTION DIAGRAM

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A) 1 CH Device

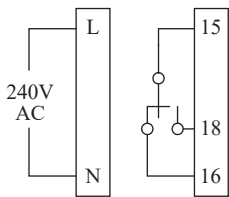


B) 2 CH Device

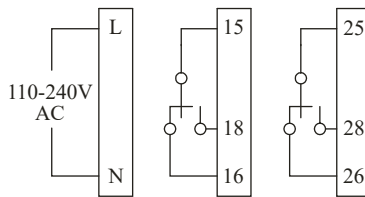


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A) 1 CH Device



B) 2 CH Device



TERMINAL TORQUE & CAPACITY

 Ø 4.5 mm	0.5 N.m (4.4 Lb.in)
	1 x 4.0 mm ² Solid/Stranded Wire
AWG	26 to 10