

	Crono		Pulse			
	67DDT0	6GHDT0	69HDT0	67DDT9	6GHDT9	69HDT9
Supply Characteristics :						
Supply Voltage (Φ)	110 to 240 VAC	24 VDC _{VA}	12 VDC	110 to 240 VAC	24 VDC	12 VDC
Supply Variation	-20% to +10% (of Φ)					
Power Consumption (Max.)	4 VA	1 VA	1 VA	4 VA	1 VA	1 VA
Operating Frequency	50/60 Hz	N.A	N.A	50/60 Hz	N.A	N.A
Battery Backup	Approx. 6 years running reserve					
Functional Characteristics :						
Display	3 Line Text LCD					
LED Indications (Red)	Relay ON: LED ON, Relay OFF: LED OFF					
Number of Programs	25 ON/OFF			16 ON		
Hour Setting	00-23 for 24h clock & 00-12 for 12h clock mode					
Clock Resolution (Minimum)	1 minute					
Pulse Duration	N.A			01-59 sec.		
Clock Mode	Either 12h (AM/PM) or 24 h Clock					
Reset	Resets all programs and clock					
Day Setting	Monday to Sunday					
Day Selection	Monday to Sunday, Monday to Saturday, Monday to Friday, Friday to Saturday, Saturday to Sunday, Individual Holiday, Individual day, Alternate week-day					
Clock Accuracy	+/- 2 s/day max. over the operating temp. range					
Number of keys	6 keys with 1 recessed reset button					
Relay Output Characteristics :						
Contact Arrangement	1 C/O (SPDT)					
Contact Rating	16 A (NO) & 5 A (NC) @ 240 VAC/24 VDC (Resistive)					
Utilization Category (AC-15) at +85° C	Ue Rated Voltage (V) : 250 (Inductive @ Cos Φ = 0.6)					
	Ie Rated Current (A) : 6.0					
Utilization Category (DC-13) at +85° C	Ue Rated Voltage (V) : 24 / 250					
	Ie Rated Current (A) : 2.0 / 0.2					
Incandescent Lamps	1000 W					
Contact Material	AgSnO ₂					
Minimum Switching Load	40 mA at 24 VDC					
Electrical Life	30,000 cycles @ rated load					
Minimum Switching Time	1 min			1 sec.		
Environmental Characteristics :						
Operating Temperature	-10° C to +55° C					
Storage Temperature	-10° C to +60° C					
Humidity	5 to 95% Rh (Without condensation)					
Maximum Operating Altitude	2000 m					
Pollution Degree	2					
Degree of Protection	IP-20 for Terminals; IP-40 for Enclosure					
Enclosure	Flame Retardant UL-94V0					
Other Characteristics :						
Mounting	Base / Din Rail					
Weight (Un-packed)	110 g max.					
Operating Position	Any					

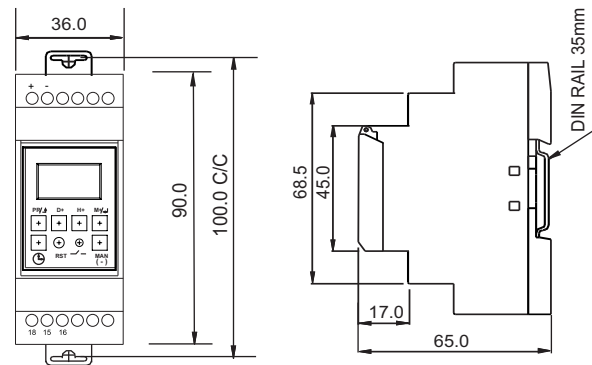
EMI/EMC Compliance:		
Harmonic Current Emissions	IEC 61000-3-2	Ed. 3.0 (2005-11) Class A
Voltage Flicker & Fluctuation	IEC 61000-3-3	Ed. 2.0 (2008-06) Class A
ESD	IEC 61000-4-2	Ed. 1.2 (2001-04) Level II
Radiated Susceptibility	IEC 61000-4-3	Ed. 3.0 (2006-02) Level III
Electrical Fast Transients	IEC 61000-4-4	Ed. 2.0 (2004-07) Level IV
Surge	IEC 61000-4-5	Ed. 2.0 (2005-11) Level IV
Conducted Susceptibility	IEC 61000-4-6	Ed. 2.2 (2006-05) Level III
Power Frequency Magnetic Field	IEC 61000-4-8	Ed. 2.0 (2009-09) Class 4
Voltage Dips & Interruption (AC)	IEC 61000-4-11	Ed. 2.0 (2004-03) Class B
Voltage Dips & Interruption (DC)	IEC 61000-4-29	Ed. 1.0 (2000-08) Class B
Conducted Emission	CISPR 14-1	Ed. 5.0 (2005-11) Class B
Radiated Emission	CISPR 14-1	Ed. 5.0 (2005-11) Class B

Safety Compliance:		
Test Voltage (Input & Output)	IEC 60947-5-1	Ed. 3.0 (2003-11) 2.5 kV
Impulse Voltage (Input & Output)	IEC 60947-5-1	Ed. 3.0 (2003-11) Level IV
Single fault	IEC 61010-1	Ed. 2.0 (2001-02)
Insulation Resistance	UL 508	Ed. 17 (1999-01) >50 kohm
Leakage Current	UL 508	Ed. 17 (1999-01) <3.5 mA

Environmental Compliance :		
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) 5 g
Repetitive Shock	IEC 60068-2-27	Ed. 4.0 (2008-02) 40 g, 6 ms
Non-repetitive Shock	IEC 60068-2-27	Ed. 4.0 (2008-02) 30 g, 15 ms

OVERALL DIMENSIONS :

Base / Din Rail Mounting



DIGITAL TIME SWITCH

Cat. No. :

*Crono*TM

Pulse

67DDT0
6GHDT0
69HDT0

67DDT9
6GHDT9
69HDT9



FEATURES :

- Easy text LCD interface for daily / weekly programming
- 12 / 24 hour clock selection using keypad
- Highly accurate RTC with low drift.
- Flexibility of writing 25 ON/OFF & 16 ON programs for Crono & Pulse respectively.
- Easy to reset & Manual override.
- Available with DST feature.
- 6 years battery back-up.
- Weekend Exclusion Programming (FRI-SAT, SAT-SUN).
- Keypad Lock available.
- *CRONO*: Ideal for lighting applications like street lighting.
- *PULSE*: Ideal for siren or bell applications.

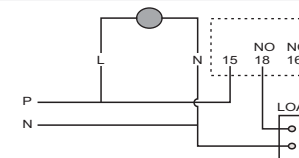
CAUTION :

- Installation should be done by skilled electrician only.
- Heavy Inductive loads should be equipped with interference suppressors like varistors, RC snubbers.
- Use of contactors is recommended if load exceeds the contact rating. Please see Inductive load category.
- Non- Rechargeable Battery Disposal: As per the applicable regulations in country and state, by authorized, professional disposal firms knowledgeable in Federal, State or Local requirements of hazardous waste treatment & transportation.

NOTE :

- **IMPORTANT:** IF DST applicable, First Set Date, then Set DST & then set the Real Time Clock.
- **IMPORTANT:** When user presses key in program edit mode, it comes to Run mode.
- **Battery Mode:** Key sensing may be slower so please make sure that, any key is pressed for at least 1 sec.
- Product innovation being a continuous process, we reserve the right to alter specifications without any prior notice.
- User is recommended to ensure the suitability of the product for the intended application
- GIC will also provide separate time switch for Non-Inrush application if customer wants.

CONNECTION DIAGRAM:



TERMINAL DETAILS :

	0.54 N.m (5 Lb.In) Terminal screw - M2.5
	1 x 0.2...3.3 mm ² Solid Wire
AWG	1 x 24 to 12

Use Copper Conductors Only, 60/75°C.

