- Multi-function with Signal Start and Supply Start.
- 16 Timing Functions selected by DIP switch.
- · Two independent relay outputs with either both relays timed or one timed and one instantaneous.
- Wide Input Signal & Supply range 24-240V AC/DC.
- Wide Timing Range 0.1 s to 120 days.
- · High timing Accuracy.
- LED indicators for Power Supply & Relay Status.





Ordering Information

Cat. No. **Description**

2A8DT6 24-240 VAC / DC, Signal Based Multi - Function, 1 C/O + 1 C/O



Cat.	No.	2A8DT6
Param	eters	
Timer [Description	Multi-function with Signal Start and Supply Start
Supply	Voltage (中)	24-240 VAC / DC
Supply	Variation	- 20% to +10%(of 中)
Freque	ency	50/60 Hz
Power	Consumption (Max.)	3 VA
Initiate		100 ms (Max.)
Reset 7	Time	200 ms (Max.)
Signal	Low Range (B1L-A2)	24-60V AC/DC
Voltage	High Range (B1H-A2)	85-265V AC, 100-265V DC
Signal	Sensing Time	For AC Signals: 50 ms Max.
Ŭ	· ·	For DC Signals: 20 ms Max.
	stabilization Delay Accuracy	100 ms (Applicable at Power ON Only) ± 5% of Full scale
	t Accuracy	± 5% OF Full Scale ± 1%
Порош	Relay Output	1 C/O (Delayed) & 1 C/O (Configurable as either Delayed or Instant)
	Contact Rating	5A @ 240 VAC / 28 VDC (Resistive)
Output		AgNi
Output	Electrical Life	1x10 ⁵
		1x10 ⁷
Set Tim	Mechanical Life	0.1 seconds to 120 Days
Function		Refer page no. 21 & 22
	dication on front panel	Green LED ON: Power ON, Amber LED ON :Relay ON for Delayed contact
Mounti		Base / DIN Rail
Max. O	perating Altitude	2000 m
Housin	ig	Flame retardant (UL 94-V0)
Operat	ing Temperature	-10°C to +60°C
Storage	e Temperature	-20°C to +70°C
Humidi	ty (Non Condensing)	95% (Rh)
LED Indication		Green LED→ Power ON, Red LED→ Relay ON
Enclosure		Flame Retardant UL94-V0
Dimension (W x H x D) (in mm)		22.5 X 83 X 100.5
Weight (unpacked)		130 g
	on Degree	
Certification		CE CULUS Complian
Degree	e of Protection	IP 20 for Terminals, IP 40 for Enclosure

4		
ERAL	•	CNAC
	•	EMC

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

Safety

Test Voltage between I/P and O/P
Test Voltage between all terminals & enclosure
Impulse Voltage between I/P and O/P IEC 60947-5-1
Single Fault IEC 61010-1
Insulation Resistance UL 508
Leakage Current UL 508
Product Reference Standard

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

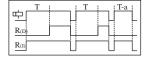


FUNCTIONAL DIAGRAMS

中: Supply Voltage, S: Input Signal, R: Relay Output, R(I): Instant Relay, R(D): Delayed Relay
T: Preset Time, TON: Preset ON Time, TOFF: Preset OFF Time, T-a: Timing Break Before completion

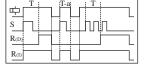
ON DELAY (Non Signal Based)

When supply is applied, timing starts and after the preset time duration 'T', output switches ON and remains ON till the supply is present.



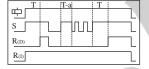
SIGNAL ON DELAY TYPE 1

When the input supply & signal are applied, timing starts and after preset time duration 'T' output switches ON & remains ON till the supply is present. Changing the state of signal during 'T' does not affect the output.



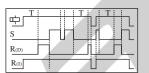
SIGNAL ON DELAY

Time commences as supply and signal is present. When input signal is opened, the timing resets. The output is switched ON at the end of the preset time duration 'T'. When output is ON if signal is opened then the output switches OFF.



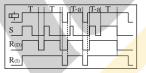
INVERTED SIGNAL ON DELAY

When supply is applied and signal is opened, preset time duration 'T' starts. On completion of the 'T', output switches ON. If the signal is closed during timing 'T', timing resets.



INTERVAL

When supply voltage is applied & signal is closed, output switches ON & timing function starts. If signal is opened and closed during the preset time, the timing restarts. After preset time 'T' has elapsed, the output switches OFF.



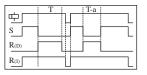
LEADING EDGE IMPULSE

When the supply applied and signal is closed, the output switches ON for preset time 'T'. After the completion of preset time 'T', the output switches OFF. If signal closed or opened during preset time duration 'T', the output remains unaffected.



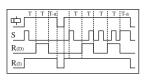
TRAILING EDGE IMPULSE

When supply voltage is applied and signal is opened, output switches ON for the preset time duration 'T'. After completion of preset time 'T', output switches OFF. If the signal is closed during preset timing 'T', output switches OFF & timing stops.



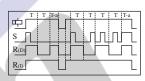
CYCLIC OFF/ON

When the supply applied and signal is closed, output switches OFF for the preset time duration 'T' and then switches ON for preset time duration 'T'. This cycle repeats while the supply is present. Changing the state of signal during 'T' does not affect the output.



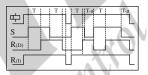
CYCLIC ON/OFF

When the supply applied and signal is closed, output switches ON for the preset time duration 'T' and then switches OFF for preset time duration 'T'. This cycle repeats while the supply is present. Changing the state of signal during 'T' does not affect the output.



SIGNAL ON/ OFF Delay

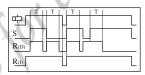
Signal ON/OFF Delay: When the supply is applied and signal is closed, outputs switches ON after preset time T'. During the timing T' if signal is opened, the output switches ON immediately and OFF delay starts. Once this time period has elapsed



the output switches OFF. During this OFF delay if signal is closed, the output switches OFF immediately and ON Delay restarts.

IMPULSE ON/OFF

When supply is applied and if signal closed or opened, output switches ON for Preset time duration 'T'. During time period 'T', changing state of input signal does not affect the output but resets the timing.



ACCUMULATIVE DELAY ON SIGNAL

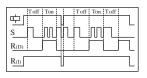
Accumulative Delay ON Signal: On application of the supply voltage, the preset timing commences. Whenever signal is closed, timing pauses & resumes back only



when the input signal is opened. The output switches ON at the end of the preset time duration 'T'.

DELAYED IMPULSE

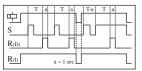
Delayed Impulse: When supply voltage is applied and signal is closed, output switches ON at the end of the preset time 'TOFF'. Then the preset ON time 'TON' starts irrespective of the signal state and remains ON till the completion of preset time



duration 'TON'. If signal closed during the timing 'TOFF', the timing restarts but the output state remains unaffected. The signal change does not have any effect during the timing period 'TON'.

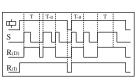
ONE SHOT

One Shot: When the supply voltage is applied and signal is closed,timing starts and after the preset time duration'T', output switches ON for One sec. only.



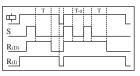
STEP MODE

Step Mode: When the supply voltage is applied and signal closed, output switches ON for preset time duration 'T', removal of the input signal during this time duration 'T' does not affect the output state. But if the signal is closed during time duration 'T', output switches OFF.



SIGNAL OFF DELAY

Signal OFF Delay: When the supply is applied and signal is closed, output is switches ON. When signal is opened, the preset timing commences and output is switches OFF at the end of time duration 'T'. If signal is closed during timing period, then timing stops and restarts when signal

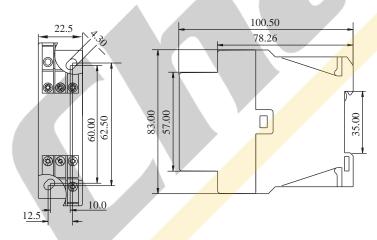




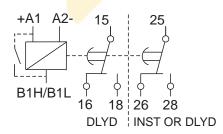
Selection of Function: Operating Mode & timing can be selected by using DIP switches

	Function		Function
1 2 3 4	On Delay (Non Signal)	1 2 3 4	Signal OFF Delay
	Signal On Delay Type 1		Step Mode
	Signal On Delay		One Shot
	Inverted Signal On Delay		Delayed Impulse
	Interval		Accumulative Delay On Signal
	Leading Edge Impulse		Impulse ON / OFF
	Trailing Edge Impulse		Signal ON / OFF Delay
_===	Cyclic OFF / ON	•	Cyclic ON / OFF
	or 2D Selection		Multiplier Selection
5	1I + 1D Operation	6	Timing = 'T' X 't' X 1
	2 Delayed Operation		Timing = 'T' X 't' X 12

MOUNTING DIMENSION (mm)



CONNECTION DIAGRAM



TERMINAL TORQUE & TERMINAL CAPACITY

Ø 3.54.0 mm	Torque - 0.6 N.m (6 Lb.in) Terminal screw - M3		
	1 X 14 mm ² Solid /Stranded Wire		
AWG	1 X 16 to 12		

- Compact 22.5mm Wide
- Wide Time Range: 0.1s to 10h
- Wide Voltage range for both AC & DC

Multi Function Timer

- Multi Function Timer with 5 different modes
- 2 C/O Configuration

- · Flush knobs for better security
- · LED Indications for Power and Relay status
- Excellent Noise Immunity to the latest IEC standards

Multi Function Timer with 1 Instant & 1 Delayed C/O

- Multi Function Timer with 6 different modes
- 2 C/O Configuration (1 Instant + 1 Delayed)



Ordering Information

Cat. No.	Description
2A5DT5	24 - 240 VAC/DC, Multi Function Timer (5 Modes), 2 C/O
2B5DT5	240 - 415 VAC, Multi Function Timer (5 Modes), 2 C/O
2A6DT6	24 - 240 VAC/DC, Multi Function Timer (6 Modes), 2 C/O (1 Instant + 1 Delayed for 6th Mode
2B6DT6	240 - 415 VAC, Multi Function Timer (6 Modes), 2 C/O (1 Instant + 1 Delayed for 6th Mode)
2AODT5	24 - 240 VAC/DC, ON Delay, 2 C/O



Cat. No.			2A5DT5		2B6DT6		
Param	Parameters						
Timer I	Description		Multi Function Timer		Multi Function Timer		
Modes	Modes		ON Delay, Interval, Cyclic ON		ON Delay, Interval, Cyclic ON-OFF, Cyclic OF		
			Cyclic OFF-ON, One Sh	ot	One Shot, ON Delay with 1 Instant & 1 Delay	ayed	
Functional Diagram			P T	₽ R T	CVCLIC ONVOEE		
			ON DELAY R T T T CYCLIC OFF/ON	R T	INST DLYD: T ON DELAY (1 INST. + 1 DLYD.)* * Available only with Cat. No. 2A6DT6 &		
Supply	v Voltage (中)		24 - 240 VAC/DC		240 - 415 VAC		
Supply	Supply Variation		- 20% to +10%(of 中)				
Freque	ency		50/60 Hz				
Power	Consumption	(Max.)	4 VA 7 VA				
Timing	Timing Range		0.1s to 10h		10		
Reset	Time		200 ms (Max.)				
	Accuracy t Accuracy		± 5% of Full scale ± 1%		W.S.		
Пород	Relay Outpu	ıt	2 C/O		2 C/O, 1 Instant + 1 Delayed (for 6th mo	nde)	
	Contact Rati		5A @ 240 VAC / 28 VDC (Resistive)	2 0/0, 1 motant 1 1 Bolayea (101 oti 1 me	ouc)	
Output	Electrical Life		1x10 ⁵				
	Mechanical	Life	1x10 ⁷				
Litilizot	ion Category	AC - 15	Rated Voltage (Ue): 120/240 V, Rat	ed Current (le	e): 3.0/1.5 A		
		DC - 13	Rated Voltage (Ue): 24/125/250 V, I	Rated Curren	t (le): 2.0/0.22/0.1 A		
	Operating Temperature Storage Temperature		-15°C to +60°C -20°C to +80°C		<i>y</i>		
	Humidity (Non Condensing)		95% (Rh)				
LED Indication			Green LED → Power ON, Red LED → Relay ON				
Enclosure			Flame Retardant UL94V0				
Dimen	Dimension (W x H x D) (in mm)		22.5 X 75 X 100.5				
Weigh	Weight (unpacked)		130 g				
Mount	Mounting		Base / DIN Rail				
Certific	ation		C C CUL US Compliant				
Degree	e of Protection		IP 20 for Terminals, IP 40 for Enclo	sure			

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_	n			•	_	IVI	C

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
Voltage Dips & Interruptions (DC)	IEC 61000-4-29
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

- Signal based Multi-function with Relay / Solid State Output
- Asymmetric Timer with Solid State Output



Ordering Information

Cat. No.	Description
2ANDT0	24 - 240 VAC/DC, Signal Based Multi Function Timer, 1 C/O
20NDTT	110 - 240 VAC, Signal Based Multi Function Timer with Solid State Output
20JDTT	110 - 240 VAC, Asymmetric Timer with Solid State Output



Cat.	No.	2ANDT0	20NDTT		
Parameters					
Descrip	otion	Signal Base	ed Multi Function		
Modes		Signal ON Delay, Accumulative ON Delay, Signal O	OFF Delay, Signal OFF/ON Delay, Leading Edge Impu		
Derived	d Modes	ON Delay, Interval			
Functional Diagram		SIGNAL ON DELAY SIGNAL ON DELAY ACCUMULATIVE ON DELAY PLEADING EDGE IMPULSE ON DELAY	SIGNAL OFF DELAY SIGNAL OFF/ON DELAY SIGNAL OFF/ON DELAY		
Supply	Voltage (中)	24 - 240 VAC/DC	110 - 240 VAC		
	Variation	- 20% to +10% (of 中)	110 - 240 VAC		
Freque		- 20% to +10% (01平) 50/60 Hz			
	Consumption (Max.)	4 VA			
	Ranges	0.1s to 10h			
Reset 1	-	200 ms (Max.)			
Setting Accuracy		± 5% of Full scale			
	Accuracy	± 1%	. 6		
ropout	Relay Output	1 C/O (SPDT)	NA		
0	Contact Rating	5A @ 240 VAC / 28 VDC (Resistive)	NA		
Output	Electrical Life	1x10⁵	NA		
	Mechanical Life	1x10 ⁷	NA		
	Type & Form	NA	Optical Isolation, SPST		
	Rated Current	N A	1A (AC)		
Solid	Max. Admissible Current	NA	20A (10 ms)		
State	Vol. Breaking Capacity	N A	110 to 240 VAC		
Output	Max. Drop @ Terminals	N A	<= 8V		
	Minimum Load Current	NA	20 mA		
	Electrical Life	N A	1x10 ⁶		
Utilizati	ion Category AC - 15 DC - 13	Rated Voltage (Ue): 120/240 V, Rated Current (le Rated Voltage (Ue): 24/125/250 V, Rated Curren			
	ing Temperature e Temperature	-15° C to +60° C -20° C to +80° C			
Humidity (Non Condensing)		95% (Rh)			
LED Indication		Green LED → Power ON Red LED → Relay ON			
Enclosure		Flame Retardant UL94-V0			
Dimension (W x H x D) (in mm)		22.5 X 75 X 100.5			
Weight (unpacked)		130 g			
Mounting		Base / DIN Rail			
Certification		CE CULUS Compliant			
Degree of Protection		IP 20 for Terminals, IP 40 for Enclosure			

EMI / EMC Harmonic Current Emissions ESD Radiated Susceptibility Electrical Fast Transients Surges Conducted Susceptibility Voltage Dips & Interruptions (AC) Voltage Dips & Interruptions (DC) Conducted Emission Radiated Emission	IEC 61000-3-2 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-5 IEC 61000-4-5 IEC 61000-4-11 IEC 61000-4-29 CISPR 14-1 CISPR 14-1
Environmental Cold Heat Dry Heat Vibration Repetitive Shock Non-Repetitive Shock	IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-6 IEC 60068-2-27 IEC 60068-2-27

Asymmetric ON-OFF Timer

- Compact 22.5mm Wide
- Can be configured to Switch ON or Switch OFF first
- Independent settings for ON & OFF time
- Wide Time Range
- LED Indications for Power and Relay status

Star Delta Timer

- · Settable Start Time
- Settable Pause Time
- Indications for Star & Delta
- Excellent Noise Immunity to the latest IEC standards



Ordering Information

Cat. No.	Description
2AADT5	24 - 240 VAC/DC, Asymmetric ON/OFF Timer, 2 C/O
2ASDT0*	24 - 240 VAC/DC, Star Delta Timer, 1 NO (Star) + 1 NO (Delta)
2ASDT1	24 - 240 VAC/DC, Star Delta Timer, 1 NO (Star) + 1 NO (Delta)
2BSDT0*	240 - 415 VAC, Star Delta Timer, 1 NO (Star) + 1 NO (Delta)
2BSDT1	240 - 415 VAC, Star Delta Timer, 1 NO (Star) + 1 NO (Delta)

^{*}Note: Product with test voltage between input and output at 1.5 kV



Enclosure Dimension (W x H x D) (in mm) 22.5 X 75 X 100.5 Weight (unpacked) Mounting Base / DIN Rail Certification	Cat. No.			2AADT5	2ASDT0	
Supply Voltage (φ) 24 - 240 VAC/DC	Param	eters				
Functional Diagram A. R TOF TOF TOF	Timer [Description		Asymmetric Timer	Star Delta Timer	
Supply Voltage (φ) 24 - 240 VAC/DC	Mode			Asymmetric ON-OFF (A), Asymmetric OFF-ON (B)	Star Delta	
Supply Variation - 20% to +10% (of φ) Frequency 50/60 Hz Power Consumption (Max.) 4 VA Timing Ranges 0.1s to 10h 3s to 120s Pause Time (P) N A 60ms, 90ms, 120ms, 150ms Reset Time 200 ms (Max.) Setting Accuracy ± 5% of Full scale Setting Accuracy ± 5% of Full scale ± 1% Relay Output 2 C/O Star - 1 'NO', Delta - 1 'NO' Contact Rating 5A @ 240 VAC / 28 VDC (Resistive) Electrical Life 1x10° Mechanical Life 1x10° Utilization Category AC - 15 DC - 13 Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A -15°C to +60°C Storage Temperature -20°C to +80°C Humidity (Non Condensing) 95% (Rh) LED Indication Green LED → Power ON, Red LED → Relay ON Red LED 1 → '∆ 'ON, Red LED 2 → '∆' ON, Red LED 2 → '∆' ON, Red LED 3 → '	Functional Diagram			A. R TON TOFF TON		
Frequency	Supply	Voltage (中)		24 - 240 VAC/DC		
Power Consumption (Max.) 4 VA	Supply	Variation		- 20% to +10% (of 中)	- LV	
Timing Ranges 0.1s to 10h 3s to 120s				50/60 Hz		
Pause Time (P) N A 60ms, 90ms, 120ms, 150ms Reset Time 200 ms (Max.) Setting Accuracy Repeat Accuracy $\pm 5\%$ of Full scale $\pm 1\%$ Output Contact Rating $5A \oplus 240 \text{ VAC} / 28 \text{ VDC}$ (Resistive) Electrical Life 1×10^5 Mechanical Life 1×10^5 Mechanical Life 1×10^5 DC - 13 Rated Voltage (Ue): 1×10^5 Operating Temperature Storage Temperature Storage Temperature 1×10^5 LED Indication Green LED 1×10^5 LED Indication Green LED 1×10^5 Drawer On, Red LED 1×10^5 R	Power	Consumption (Max.)	4 VA		
Reset Time 200 ms (Max.) Setting Accuracy ± 5% of Full scale Repeat Accuracy ± 1% Accuracy ± 1% Relay Output 2 C/O Star - 1 'NO', Delta - 1 'NO' Contact Rating 5A @ 240 VAC / 28 VDC (Resistive) Electrical Life 1x10° Mechanical Life 1x10° Mechanical Life 1x10° DC - 13 Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A Dc - 13 Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A Operating Temperature -15°C to +60°C Storage Temperature -20°C to +80°C Humidity (Non Condensing) 95% (Rh) LED Indication Green LED → Power ON, Red LED → Relay ON Red LED 1 → 'A,' ON, Red LED 2 → 'A' O Enclosure Flame Retardant UL94-V0 Dimension (W x H x D) (in mm) 22.5 x 75 x 100.5 Weight (unpacked) 130 g Mounting Base / DIN Rail Certification Certification	Timing Ranges			0.1s to 10h	3s to 120s	
Setting Accuracy Repeat Accuracy Relay Output Relay Output Contact Rating Electrical Life Mechanical Life Utilization Category Coperating Temperature Storage Temperature Humidity (Non Condensing) LED Indication Enclosure Dimension (W x H x D) (in mm) Relay Output 2 C/O Star - 1 'NO', Delta - 1 'NO' AC - 15 Nated Volt (Resistive) Electrical Life 1x10 ⁵ Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A DC - 13 Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A Operating Temperature Storage Temperature -20°C to +80°C Humidity (Non Condensing) Bese / DIN Rail Certification Certification Certification Certification Contact Rating 1x10 ⁵ Star - 1 'NO', Delta - 1 'NO' Star - 1 'NO' Star - 1 'NO', Delta - 1 'NO' Star - 1 'NO', Delta - 1 'NO' Star - 1 'NO' Star - 1 'NO', Delta - 1 'NO' Star - 1 'NO' Star - 1 'NO' Star - 1 'NO', Delta - 1 'NO' Star - 1 'NO'	Pause Time (P)			NA	60ms, 90ms, 120ms, 150ms	
Repeat Accuracy $\pm 1\%$ Relay Output 2 C/O Star - 1 'NO', Delta - 1 'NO' Contact Rating $5A \otimes 240 \text{ VAC} / 28 \text{ VDC}$ (Resistive) Electrical Life $1x10^{\circ}$ Mechanical Life $1x10^{\circ}$ Utilization Category $AC - 15$ Rated Voltage (Ue): $120/240 \text{ V}$, Rated Current (Ie): $3.0/1.5 \text{ A}$ Operating Temperature Storage Temperature Humidity (Non Condensing) 95% (Rh) LED Indication $AC + AC $	Reset	Time		200 ms (Max.)	^ ^	
Output Contact Rating Electrical Life $1x10^5$ Mechanical Life $1x10^5$ Mechanical Life $1x10^7$ Rated Voltage (Ue): $120/240$ V, Rated Current (Ie): $3.0/1.5$ A Rated Voltage (Ue): $24/125/250$ V, Rated Current (Ie): $2.0/0.22/0.1$ A C - 13 Rated Voltage (Ue): $24/125/250$ V, Rated Current (Ie): $2.0/0.22/0.1$ A Operating Temperature Storage Temperature -15° C to $+60^{\circ}$ C -20° C to $+80^{\circ}$ C Humidity (Non Condensing) 95% (Rh) Green LED \rightarrow Power ON, Red LED \rightarrow Relay ON Red LED $1\rightarrow$ ' \rightarrow ' 'ON, Red LED $2\rightarrow$ ' \rightarrow ' ON Plane Retardant UL94-V0 Dimension (W x H x D) (in mm) $-22.5 \times 75 \times 100.5$ Weight (unpacked) -130 g Base / DIN Rail Certification -130 g Base / DIN Rail					/0/	
Utilization Category $AC - 15$ Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A $AC - 13$ Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A $AC - 13$ Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A $AC - 13$ Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A $AC - 13$ Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A $AC - 13$ Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 2.0/0.22/0.1 A $AC - 13$ Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 2.0/0.22/0.1 A $AC - 13$ Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 2.0/0.22/0.1 A $AC - 13$ Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 2.0/0.22/0.1 A $AC - 13$ Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 2.0/0.22/0.1 A $AC - 13$ Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 2.0/0.22/0.1 A $AC - 13$ Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 2.0/0.22/0.1 A $AC - 13$ Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 2.0/0.22/0.1 A $AC - 13$ Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 2.0/0.22/0.1 A $AC - 13$ Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 3.0/1.5 A		Relay Output	t	2 C/O	Star - 1 'NO', Delta - 1 'NO'	
Hechanical Life $1x10^\circ$ Mechanical Life $1x10^\circ$ Utilization Category $AC - 15$ DC - 13 Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A Operating Temperature Storage Temperature -15° C to $+60^\circ$ C -20° C to $+80^\circ$ C Humidity (Non Condensing) 95% (Rh) LED Indication Green LED \rightarrow Power ON, Red LED \rightarrow Relay ON Red LED $1 \rightarrow$ ' \downarrow ' ON, Red LED $2 \rightarrow$ ' \downarrow ' ON Red LED	Output	Contact Rating		5A @ 240 VAC / 28 VDC (Resistive)	113	
Utilization Category $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Output	Electrical Life		1x10⁵		
DC - 13 Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A Operating Temperature Storage Temperature -15°C to +60°C -20°C to +80°C Humidity (Non Condensing) LED Indication Green LED → Power ON, Red LED → Relay ON Enclosure Dimension (W x H x D) (in mm) 22.5 X 75 X 100.5 Weight (unpacked) Mounting Base / DIN Rail Certification Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A -15°C to +60°C -20°C to +80°C Power ON, Red LED → Relay ON Red LED 1 → '↓'ON, Red LED 2 → '△'O Red LED 1 → '△'ON, Red LED 2 → '△'O Red LED 1 → '△'ON, Red LED 2 → '△'O Red LED 1 → '△'ON, Red LED 2 → '△'ON, Red LED 2 → '△'ON, Red LED 2 → '△'ON, Red LED		Mechanical Life		THE STATE OF THE S		
Operating Temperature Storage Temperature Storage Temperature Humidity (Non Condensing) LED Indication Enclosure Dimension (W x H x D) (in mm) Weight (unpacked) Mounting Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A -15°C to +60°C -20°C to +80°C Red LED → Relay ON Red LED 1 → '人' ON, Red LED 2 → 'Δ' O Red LED 1 → '人' ON, Red LED 2 → 'Δ' O Red LED 1 → 'L' ON, Red LED 2 → 'Δ' O Red L	Utilizat	ion Category				
Storage Temperature -20°C to +80°C Humidity (Non Condensing) LED Indication Green LED→ Power ON, Red LED→ Relay ON Enclosure Flame Retardant UL94-V0 Dimension (W x H x D) (in mm) Weight (unpacked) Mounting Base / DIN Rail Certification -20°C to +80°C 95% (Rh) Green LED→ Power ON, Red LED→ Relay ON Red LED 1→ '人' ON, Red LED 2 → '△' O Red LED 1→ '人' ON, Red LED 2 → '△' O Red LED 1→ '人' ON, Red LED 2 → '△' O Flame Retardant UL94-V0 Dimension (W x H x D) (in mm) 22.5 X 75 X 100.5 Weight (unpacked) Base / DIN Rail Certification						
LED Indication Green LED → Power ON, Red LED → Relay ON Red LED 1 → '↓' ON, Red LED 2 → '∆' O Enclosure Flame Retardant UL94-V0 Dimension (W x H x D) (in mm) 22.5 X 75 X 100.5 Weight (unpacked) 130 g Mounting Base / DIN Rail Certification Certification						
Enclosure Flame Retardant UL94-V0 Dimension (W x H x D) (in mm) 22.5 X 75 X 100.5 Weight (unpacked) Mounting Base / DIN Rail Certification	Humidity (Non Condensing)		nsing)	95% (Rh)		
Dimension (W x H x D) (in mm) 22.5 X 75 X 100.5 Weight (unpacked) Mounting Base / DIN Rail Certification	LED Indication			Green LED→ Power ON, Red LED→ Relay ON	Red LED 1 \rightarrow ' \downarrow ' ON, Red LED 2 \rightarrow ' \triangle ' ON	
Weight (unpacked) Mounting Base / DIN Rail Certification (Enclosure			Flame Retardant UL94-V0		
Mounting Base / DIN Rail Certification Certification	Dimension (W x H x D) (in mm)) (in mm)	22.5 X 75 X 100.5		
Certification (C C C C C C C C C C C C C C C C C C	Weight (unpacked)			130 g		
	Mounting			Base / DIN Rail		
Degree of Protection IP 20 for Terminals IP 40 for Enclosure	Certification			C E C U us Compliant		
1 20 101 Total Collection	Degree	e of Protection		IP 20 for Terminals, IP 40 for Enclosure		

EMI	1	EMC

Harmonic Current Emissions
ESD
Radiated Susceptibility
Electrical Fast Transients
Surges
Conducted Susceptibility
Voltage Dips & Interruptions (AC)
Voltage Dips & Interruptions (DC)
Conducted Emission
Radiated Emission

IEC 61000-4-2
IEC 61000-4-5
IEC 61000-4-1
IEC 61000-4-1
IEC 61000-4-29
CISPR 14-1
CISPR 14-1

Environmental

 Cold Heat
 IEC 60068-2-1

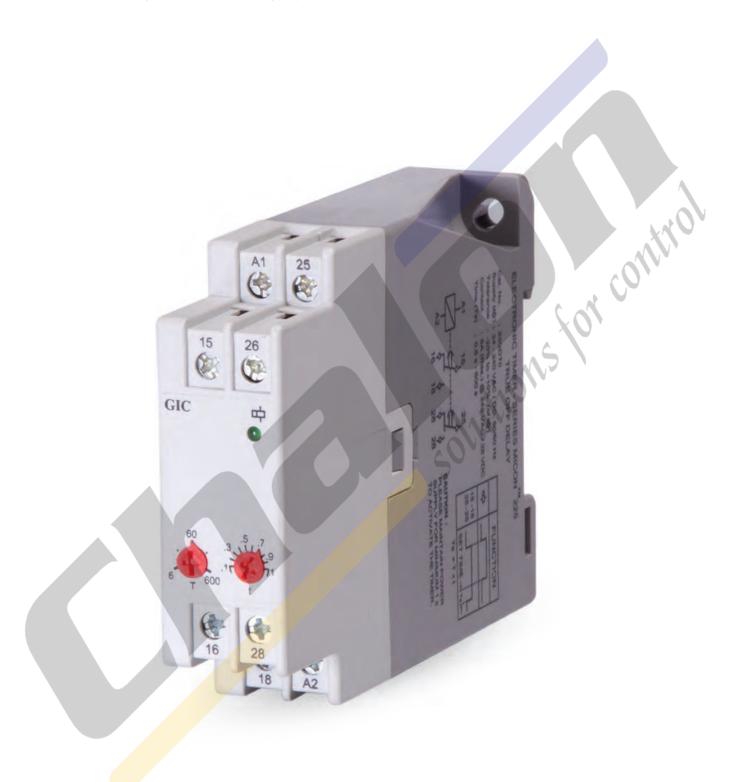
 Dry Heat
 IEC 60068-2-2

 Vibration
 IEC 60068-2-6

 Repetitive Shock
 IEC 60068-2-27

 Non-Repetitive Shock
 IEC 60068-2-27

• True OFF Delay (Power OFF Delay) upto 600 seconds with 2 C/O.



Ordering Information

Cat. No. Description

23GDT0 24-240 VAC/DC, True OFF Delay (Power OFF Delay) Timer, 2 C/O



Cat.	No.		23GDT0	
Param	eters			
Timer Description True OFF Delay (Power OFF Delay) Timer		True OFF Delay (Power OFF Delay) Timer		
Mode True OFF Delay (Power OFF Delay)		True OFF Delay (Power OFF Delay)		
Functional Diagram			R T	
Supply	Voltage (中)		24 - 240 VAC/DC	
	Variation		-10 to +20% (of 中)	
Freque	ncy		50/60 Hz	
Power Consumption (Max.) 2.5 VA		2.5 VA		
Energizing Time 1s (Minimum)		1s (Minimum)		
Timing Range 0.6s to 600s		0.6s to 600s		
Setting Accuracy			± 5% of Full scale	
Repeat Accuracy			± 1%	
	Relay Outpu	t	2 C/O	
Output	Contact Rating		5A @ 240 VAC / 28 VDC (Resistive)	
Output	Electrical Life		1x10⁵	
	Mechanical		1x10 ⁷	
Utilizati	on Category	AC - 15	Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A	
		DC - 13	Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A	
	ing Temperatu		-15°C to +60°C	
Storage Temperature			-20°C to +70°C	
Humidity (Non Condensing)		ensing)	95% (Rh)	
		Green LED → Power ON, Red LED → Relay ON		
		Flame Retardant UL94-V0		
		ט) (וח mm)	22.5 X 75 X 100.5	
Weight (unpacked)		A	130 g	
Mounti	ng		Base / DIN Rail	
Certific	ation		C E C US KONES Compliant	
Degree of Protection IP 20 for Terminals, IP 40 for Enclosure		IP 20 for Terminals, IP 40 fo <mark>r Enclosu</mark> re		

EMI / EMC

Harmonic Current Emissions

ESD

Radiated Susceptibility

Electrical Fast Transients

Surges

Conducted Susceptibility

Voltage Dips & Interruptions (DC)

Conducted Emission

Radiated Emission

IEC 61000-4-2

IEC 61000-4-5

IEC 61000-4-5

IEC 61000-4-1

IEC 61000-4-1

IEC 61000-4-1

IEC 61000-4-1

IEC 61000-4-1

CISPR 14-1

Environmental

 Cold Heat
 IEC 60068-2-1

 Dry Heat
 IEC 60068-2-2

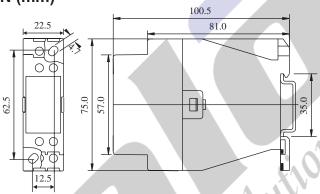
 Vibration
 IEC 60068-2-6

 Repetitive Shock
 IEC 60068-2-27

 Non-Repetitive Shock
 IEC 60068-2-27

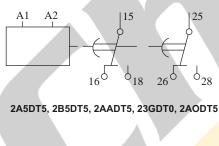


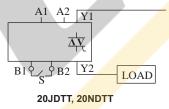
MOUNTING DIMENSION (mm)

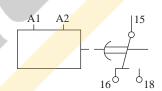


2A5DT5, 2B5DT5, 2AODT5, 2ASDT0, 2ASDT1, 2BSDT0, 2BSDT1, 2AJDT0, 2AJDT1, 2AADT5, 20JDTT, 20NDTT, 2ANDTO, 23GDTO, 2A6DT6, 2B6DT6

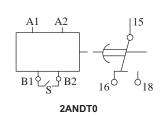
CONNECTION DIAGRAM

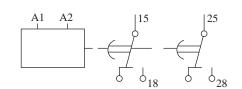




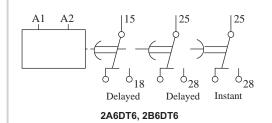


2AJDT0, 2AJDT1, 23UDT0, 27UDT0





2ASDT0, 2BSDT0, 2ASDT1, 2BSDT1



TERMINAL TORQUE & TERMINAL CAPACITY

Ø 3.54.0 mm	Torque - 0.6 N.m (6 Lb.in) Terminal screw - M3	
	Solid Wire - 1 X 14 mm ²	
AWG	1 X 18 to 10	