

INSTRUCTION SHEET

MULTI-FUNCTION TIMERS GT3W (SEQUENCE TYPE)

Confirm that the delivered product is what you have ordered. Read this instruction sheet to make sure of correct operation. Make sure that the instruction sheet is kept by the end user.

● TIME SPECIFICATIONS

<u> </u>						
Time Sp	ecificati	on Code: 1	Time Specification Code: 3			
Time Range Selector	Scale	Time Range	Time Range Selector	Scale	Time Range	
18		0.1sec - 1sec	1S		0.1sec - 3sec	
10S	0-1	0.3sec - 10sec	1M	0-3	3sec - 3min	
10M		15sec - 10min	1H		3min - 3hours	
1S		0.1sec - 6sec	1S		0.6sec - 30sec	
10S		1sec - 60sec	1M		36sec - 30min	
1M	0-6	6sec - 6min	1H	0-30	36min - 30hours	
10M		1min - 60min	1011		6hours - 300hours	
1H		6min - 6hours	10H		oriours - 300riours	

*The Scale is interlocked and replaced with the Time Range Selector.

The time range is calibrated at its maximum time scale, therefore it is desirable to use the timer at a setting as close to its maximum time scale as possible for accurate time delay. For a more accurate time delay, adjust the control knob by measuring the operating time with a instrument before application.

●GENERAL SPECIFICATIONS

GENER	KAL S	PECII	-ICATI	UNS		
Operation System				Solid-state CMOS circuit		
Operation Type				Multi-Mode		
Time Range				1: 0.1sec to 6hours, 3: 0.1sec to 300hours		
Pollution Degree			2 (IE60664-1)			
Over Volta	ige Ca	tegory		III (IE60664-1)		
Rated Ope	eration	al	AF20	100-240V AC(50/60Hz)		
Voltage			AD24	24V AC(50/60Hz)/24V DC		
Voltage To	olerand	се	AF20	85-264V AC(50/60Hz)		
			AD24	20.4-26.4V AC(50/60Hz)/21.6-26.4V DC		
Disengagir Voltage	ng Valı	ue of In	put	Rated Voltage ×10% minimum		
Range of A		nt Oper	ating	-10 to +50°C (without freezing)		
Range of A			0	-30 to +70°C (without freezing)		
Range of F	Relativ	e Humi	dity	35 to 85%RH (without condensation)		
Air Pressu	re			80kPa to 110kPa (Operating)		
				70kPa to 110kPa (Transport)		
Reset Time	е			60msec maximum		
Repeat En	ror			±0.2%, ±10msec*		
Voltage Er	ror			±0.2%, ±10msec*		
Temperatu	ire Erre	or		±0.6%, ±10msec*		
Setting Err	ror			±10% maximum		
Insulation	Resist	ance		100MΩ minimum (500V DC)		
Dielectric S	Streng	th		Between power and output terminals: 2000V AC, 1 minute		
				Between contacts of different poles: 2000V AC, 1 minute		
				Between contacts of the same pole: 750V AC, 1 minute		
Vibration F	Resista	ınce		10 to 55Hz amplitude 0.75mm		
				2 hours in each of 3 axes		
Shock Res	sistanc	e		Operating extremes: 98m/sec ² (Approx. 10G)		
				Damage limits: 490m/sec ² (Approx. 50G)		
Degree of Protection				3 times in each of 3 axes IP40 (enclosure), IP20 (socket) (IEC60529)		
Power	AF20		C/60Hz	2.6VA		
Consum-		200V A		5.1VA		
ption (Approx.)	AD24(AC/DC)			1.8VA/0.9W		
Mounting I			,	Free		
Outline Dimensions				40.0H×36.0W×70.0D mm		
Weight (Approx.)				80a		
_ , ,	·		r againet	t a preset time, whichever the larger applies.		

For the value of the error against a preset time, whichever the larger applies.

APPLICABLE STANDARD

UL508, CSA C22.2 No.14, IEC61812-1, EN61812-1 Safety standard IEC61812-1, EN61812-1

Electrostatic Discharge	IEC61000-4-2, EN61000-4-2
Radiated Radio-Frequency Electromagnetic Field	IEC61000-4-3, EN61000-4-3
Electrical Fast Transient/Burst	IEC61000-4-4, EN61000-4-4
Surges	IEC61000-4-5, EN61000-4-5
Conducted Radio-Frequency	IEC61000-4-6, EN61000-4-6
Voltage Dips	IEC61000-4-11, EN61000-4-11
Voltage interruptions	IEC61000-4-11, EN61000-4-11
Radiated Emission	CISPR 11, EN55011 (Group 1, Class A)

Operation Mode	Туре	Time Speci-	Batad Valtaga Coda	Output	Contact	Type No.	
Operation Mode		fication Code	Rated Voltage Code			8-pin Type	11-pin Type
A: Sequential Start		1: 0.1sec -				GT3W-A11AF20N	GT3W-A11EAF20N
B: On-delay with Course and Fine		6hours				GT3W-A11AD24N	GT3W-A11EAD24N
C: Recycler and Instaneous	GT3W-A *1 *2 *3 N GT3W-A *1 E *2 *3 N	W-A *1 *2 *3 N 3: 0.1sec -		3A, 240V AC 5A, 120V AC/30V DC (Resistive Load)	SPDT + Delayed SPDT	GT3W-A13AF20N	GT3W-A13EAF20N
D: Recycler Outputs (OFF Start)						GT3W-A13AD24N	GT3W-A13EAD24N
1 ' ' '						GT3W-A31AF20N	GT3W-A31EAF20N
F: Interval ON						GT3W-A31AD24N	GT3W-A31EAD24N
G: Interval ON Delay						GT3W-A33AF20N	GT3W-A33EAF20N
H: Sequential Interval						GT3W-A33AD24N	GT3W-A33EAD24N

*1 The sign of the time specification T1 enters.

The sign of the time specification T2 enters.

The specification sign of Rated Voltage Code enters

● OPE	ERATIO	N CHART	S A line specification	i sign of Rated Vo	Itage Co	Code enters.			
MODE	Operation chart					Operation chart			
A : Sequential Start	Power Delayed Contact Ry1 Delayed Contact Ry2 Indi- cator Set T	Terminal No.	Operation T1 T2		E : Recycler Outputs (ON Start)	Item Terminal No. Operation			
B : On-delay with Course and Fine	Item Power Delayed Contact Ry1 Delayed Contact Ry2 Indi- cator Set T	Terminal No. 2-7(8p) 2-10(11p) 1-4(8p) 1-4(11p) (NC) 1-3(18p) 1-3(11p) (NO) 5-8(8p) 8-11(11p) (NC) 0UT1 OUT2 Imme	Operation T1 T2		F : Interval ON	Item			

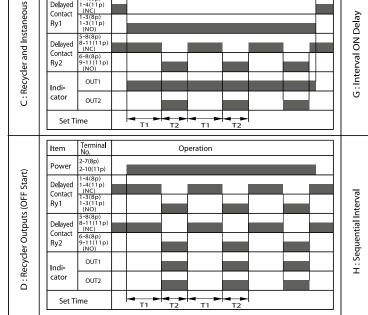
-7(8p)

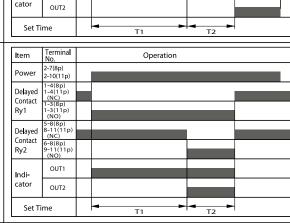
OUT1

Delayed

De**l**ayed

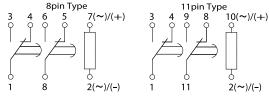
cator





INTERNAL CONNECTIONS

-7(8p)



●OUTP	UT SPECIFIC	ATIONS		
Allowable	Contact Power	960VA/120W		
Allowable	Voltage	250V AC/150V DC		
Allowable	Current	5A		
	n Permissible g Frequency	600 cycles per hour		
Contact F	Ratings	1/8HP, 240V AC		
		3A, 240V AC (Resistive)		
		5A, 120V AC/30V DC (Resistive)		
Condition	al Short Circuit	Fuse 5A, 250V		
Life	Electrical (Resistive)	100,000 op. minimum (Contact rating load)		
	Mechanical	20,000,000 op. minimum		

Safety Precautions

Special expertise is required to use the Electronic Timer.

- · All Electronic Timer modules are manufactured under IDEC's rigorous quality control system, but users must add a backup or fail safe provision to the control system using the Electronic Timer in applications where heavy damage or personal injury may be caused in case the Electronic Timer
- Install the Electronic Timer according to instructions described in this instruction sheet and the catalog.
- · Make sure that the operating conditions are as described in the catalog. If you are uncertain about the specifications, contact IDEC in advance.
- In this instruction sheet, safety precautions are categorized in order of importance to Warning and Caution.



Warning notices are used to emphasize that Warning improper operation may cause sever personal injury or death.

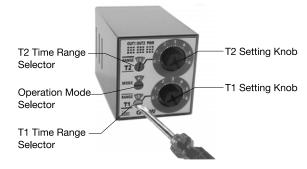
- Trun power off to the Electronic timer before starting installation, removal, Wiring, maintenance, and inspection on the Electronic Timer, Failure to turn power off may cause electrical shocks or fire hazard.
- Emergency stop and interlocking circuits must be configured outside the Electronic timer. If such a circuit is configured inside the Electronic Timer, failure of the Electronic timer may cause disorder of control system, or accidents.



Caution notices are used where inattention might cause personal injury or damage to equipment.

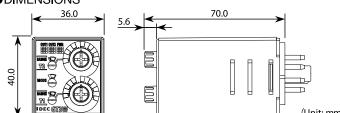
- The Electronic Timer is designed for installation in equipment. Do not install the
- Electronic Timer outside equipment. Install the Electronic Timer in environments described in this instruction sheet and the catalog. If the Electronic Timer is used in places where the Electronic Timer is subjected to high-temperature, high-humidity, condensation, corrosive gases, excessive vibrations, and excessive shocks, then electrical shocks, fire hazard, or malfunction will result.
- Use an IEC60127-approved fuse and circuit breaker on the power and output line outside the Electronic Timer.
- Do not disassemble, repair, or modify the Electronic Timer. • When disposing of the Electronic Timer, do so as an industrial waste.

SWITCH SETTING



- (1) The switches should be securely turned using a flat screwdriver 4mm wide maximum. Note that incomplete setting may cause malfunction. The swhiches, which do not turn infinitely, should not be turned beyoned the limits.
- (2) Since changing the setting during timer operation may cause malfunction, power should be turned off before changing the setting.

DIMENSIONS



NOTE: GT3W series are UL Listed when uesd in combination

with following IDEC's sockets: SR2P-06* pin type socket. GT3W-A11,A13,A31,A33:

SR3P-05* pin type socket. GT3W-A11E,A13E,A31E,A33E:

(*-May be followed by A,B,C or U)

The socket to be used with these timers are rated: -Conductor Temperature Rating 60°C,

-Use No.14AWG to No.18AWG. Copper conductors only,

-Terminal Torque 1.0 to 1.3 N-m

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