GT3A-1,-2 and -3 ALL MULTI-TIMERS **INSTRUCTION SHEET**

Read this instruction sheet to make sure of correct operation before starting installation, operation, maintenance, and inspection of the GT3A series timers. The end user should keep this instruction sheet for future reference.

●TIME RANGE Determined by Time Range Selector

4114				
Range D	ial 0-1	0-3	0-6	0-18
15	0.1sec - 1sec	0.1sec - 3sec	0.1sec - 6sec	0.2sec - 18sec
108	0.1sec - 10sec	0.3sec - 30sec	0.6sec - 60sec	1.8sec - 180sec
10M	6sec - 30min	18sec - 30min	36sec - 60min	108sec - 180min
10H	6min - 10hours	18min - 30hours	36min - 60hours	108min -180hours

•GENE	RAL	SPEC	IFIC/	ATIONS		~~~		
Operation System				Solid-state CMOS circuit				
Operation Type				Multi-Mode				
Time Range				0.1sec to 180hours				
Pollution Degree				2 (IE60664-1)				
Over volta	ige ca	tegory		III (IE60664-1)				
Rated Op	eration		AF20	100-240V AC(50				
Voltage			AD24	24V AC(50/60H	z)/24V DC			
Voltage T	oleran	ce	AF20	85-264V AC(50/				
			AD24	20.4-26.4V AC(5	50/60Hz)/21.6-26	4V DC		
Disengagi Voltage	ng val	ue of In	put	Rated Voltage	< 10% minimum			
Range of	ambie	nt Oper	ating	-10 to +50°C (wi	thout freezing)			
Temperat								
Range of				-30 to +70°C (w	thout freezing)			
and Trans								
Range of		ve Hum	dity		ithout condensation	on)		
Air Pressu	ıre			80kPa to 110kPa				
				70kPa to 110kPa (Transport)				
Reset Tim	Ne .			60msec maximu				
Repeat E				±0.2%, ±10msec*				
Voltage E	rror			±0.2%, ±10msec*				
Temperat	ure En	ror		±0.2%, ±10msec*				
Setting E	TOF			±10% maximum				
Insulation	Resis	tance		100M Ω minimum (500V DC)				
Dielectric Strength				Between power and output terminals: 2500V AC, 1 minute Setween contacts of different poles: 2000V AC, 1 minute Between contacts of the same pole: 750V AC, 1 minute (GTSA-1, 2) 1000V AC, 1 minute (GTSA-3)				
Vibration Resistance				10 to 55Hz amplitude 0.75mm 2 hours in each of 3 axes				
Shock Resistance				Operating extremes: 98m/sec² (Approx. 10G) Damage limits: 490m/sec² (Approx. 50G) 3 times in each of 3 axes				
Degree of Protection				IP40 (enclosure), IP20 (socket)	(IEC60529)		
Power	TYPE			GT3A-1	GT3A-2	GT3A-3		
Consum-	AF20	100V A	C 60Hz	2.9VA	2.5VA	2.2VA		
peon		200V A	C/60Hz	4.7VA	4.3VA	4.0VA		
(Approx.)	AD24	(AC/DC)	1.3VA/0.5W	1.6VA/0.8W	1.8VA/0.7W		
Mounting	Positio	วก .		Free				
Outline Di	mensi	ons		40H × 36W × 72	.5D mm			
Weight (A	фргох.)		GT3A-1	GT3A-2	GT3A-3		
				63g	73q	79a		

The value of the error over a preset time applies the value of which or the larger one

OAPPLICABLE STANDARD

UL 508, CSA C22.2 No.14, IEC61812-1, EN61812-1 Safety standard EMC ÆC61812-1, EN61812-1

IEC61000-4-2 EN61000-4-2 Electrostatic Discharge level 3 Contact±6k, Air±8kV IEC61000-4-3 Electromagnetic Field 10V/m, AM 80%, 80M-1000MHz EN61000-4-3 IEC61000-4-4 EN61000-4-4 Fast Transient/Burst Power Supply: ±2kV IEC61000-4-5 EN61000-4-5 AF20 level 3 Surge Power Supply: Line to Line ±1.0kV Line to Ground ±2.0kV level 2
Power Supply:
Line to Line ±0.5kV
Line to Ground ±1.0kV
Group 1 Class A AD24 CISPR 11 EN55011

CONTACT RATINGS

Safety Precautions

Radiated Emission

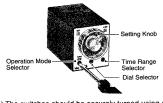
●CON!	ACTRATIN	GS				
Type		GT3A-1, GT3A-2	GT3A-3			
Allowable Contact Power		960VA/120W	1200VA/120W			
Allowable Voltage		250V AC/150V DC				
Allowable Current		5A				
Maximum permissible operating frequency		1800 cycles per hour				
Rated Load		1/8HP, 240V AC 3A, 240V AC (Resistive) 5A, 120V AC/30V DC (Resistive	1/6HP, 240V AC 5A, 240V AC/24V DC) (Resistive)			
Conditional Short Circuit		Fuse 5A, 250V				
Life	Electrical	100,000 op. minimum (Resistive)				
	Mechanical	20,000,000 op. minimum				

OTYPES

Operation Mode	Rated Voltage Code	Time Range	Output	Contact	Тур	e No.
Operation wode	nated voltage code	Time nange	Output	Comaci	8-pin Type	11-pin Type
	AF20: 100 to 240V AC(50/60Hz)		3A, 240V AC	Delayed SPDT	GT3A-1AF20	GT3A-1EAF20
A: ON Delay B: Interval ON		180hours	5A, 120V AC/30V DC (Resistive Load)	Delayed SPDT + Instantaneous	GT3A-2AF20	GT3A-2EAF20
C: Flicker	AF20: 100 to 240V AC(50/60Hz)		(toolouvo coda)	SPDT	GT3A-2AD24	GT3A-2EAD24
D: Flicker ON	AD24: 24V AC(50/60Hz)/24V DC		5A, 240V AC 5A, 24V DC	Delayed DPDT	GT3A-3AF20	GT3A-3EAF20
		for details.)	(Resistive Load)	Delayed Di Di	GT3A-3AD24	GT3A-3EAD24

Type		GT3A-1		GT3A-2			GT3A-3	
de	Delayed SPDT		Delayed SPD	Delayed SPDT + Instantaneous SPDT		Delayed DPDT		
	Item Terminal No. Power 2-7(6p) 2-10(11p)	Operation	Item Terminal	Operation	Power 2	erminal 0. -7(8p) -10(11p)	Operation	
A : ON Defay	Delayed (NC) Contact 6-8(8p) 9-11(11p) 9-11(11p) (NO)		5-8(8p) B-11(1p) B-11(1p) Contact 6-8(8p) 9-11(1p) (NO)			5-8(5p) 8-11(11p) NC) 6-8(8p) 9-11(11p) NO)		
₹	Indi- cator OUT		Instan- 1-4(Cp) taneous 1-3(8p) Contact 1-3(11p) (NO)		Indi- cator	out		
	Set Time	T	cator _{OUT}		Set Tie	me [े व २८	
: interval ON	Item Taminal	Operation	Item Terminal	Operation	Power 2 2 Delayed	eminai (o7(ap) -10(11a) (5-6) (ap) -10(11a) (5-6) (ap) -10(11a)	Operation:	
8	360 18799		Indi- Castor Cauti		Set Ti	ANN 12 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 1	
C : Flicker (OFF Start)	Item Terminal No.	Operation	Item Terminal	Operation	Censyes Cortuct	5 1987 1988 15-1980 15-1980 15-1980 15-1980 15-1980		
C : Flicke	Set Time	→	Contact 1.3(11b) (NO) indi- cator OUT		Set T	OUT TIME		
(ON Start)	Item Terminal No. Power 2-16(11p) 5-8(8p) 8-11(15) Delayed G-8(8p) 9-11(1p) (1-1	Operation	Item Terminal	Operation	Power	Terminal No. 2-7(8x) 2-10(11c) 45-8(b) 45-10(75) 2-10(11c) 45-10(75) 2-10(11c) 45-10(75) 3-10	Operation	
D : Flicker ON (ON Start)	Indicator OUT Set Time		Contact (-3(11p) (NO) Indi- cator OUY		Ind- cator Set 1	Practice Children		
	1		Set Time	4 - 14 - 1				

OSWITCH SETTING

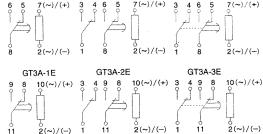


- (1) The switches should be securely turned using a flat screwdriver 4mm wide maximum. Note that incomplete setting may cause malfunction. The switches, which do not turn infinitely, should not be turned beyond the limits.
- (2) Since changing the setting during timer operation may cause malfunction,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

•INTERNAL CONNECTIONS GT3A-2

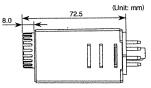
7(~)/(+)

GT3A-1



7(~)/(+) 3

DIMENSIONS



GT3A-3

5

7(~)/(+)

4 6

NOTE: GT3A series are UL Listed when uesd in combination

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: GT3A series are UL Listed when uesd in combination with following IDEC's sockets:
GT3A-1,2,3: SR2P-06* pin type socket.
GT3A-1E,2E,3E: SR3P-05* pin type socket.
(*-May be followed by A,B,C or U)
The socket to be used with these timers are rated:
-Conductor Temperature Rating 60°Cmin.,
-Use 14AWG max.(2mm²max.) Copper conductors only,
-Terminal Torque 1.0 to 1.3 N-m

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.

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

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 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.

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,

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

Turn power off to the Electronic timer before starting installation, removal, Wiring, maintenance, and inspection on the Electronic Timer. Failure to turn

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