

# KTM-AM MULTI-TIMER



CONTROL COMPONENTS

SQUARE LIGHT

TOWER LIGHT

MICRO SWITCH

FOOT SWITCH

LIMIT SWITCH

POWER SWITCH

HOIST SWITCH

CAM SWITCH

BUZZER

PHOTO SENSOR

PROXIMITY SENSOR

FLOATLESS LEVEL SWITCH

TIMER & COUNTER

RELAY

SOCKETS

TERMINAL BLOCK

CONTROL BOX

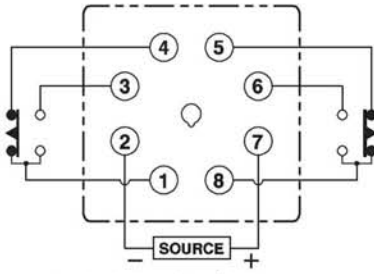
PID TEMP. CONTROLLER

## Specification

Model	KTM-AM8	KTM-AM11
Time Range	0.05sec~300 hours	
Voltage	24~240VAC(50/60Hz), 24~240VDC	
Power Consumption	24~240VAC: relay ON(2.5VA) relay OFF(0.8VA) 24~240VDC: relay ON(1.0W) relay OFF(0.3W)	
Output	Mode1&5: time-limit 2C	
Output	Mode2,3,4,6: instantaneous 1C+time-limit 1C	
Ratings	250VAC 5A(Resistive load)	
Relay durability	Mechanical: 10,000,000 operations Electrical: 100,000 operations	
Returning time	Max. 100ms	
Input	Start	- Minimum signal width: 50ms
	Inhibit	- non-voltage input
	Reset	- non-voltage input
Repetition error	± 0.3% Max.	
Setting error	± 5% ± 50ms Max.	
Voltage error	± 0.2% Max.	
Temperature error	± 2% Max.	
Insulation resistance	100MΩ(500VDC)	
Dielectric strength	2,000VAC 50/60Hz for 1 minute	
Anti-noise resistance	Square wave (pulse width 1 μs ) by noise simulator ± 2KV	
Vibration	Resistance	10~55Hz at double amplitude: 0.75mm(X,Y,Z directions) for 1 hour
	Malfunction	10~55Hz at double amplitude: 0.5mm(X,Y,Z directions) for 10 min.
Ambient Temperature	-10~+55°C (not freezing condition)	
Ambient Humidity	35~85% RH	
Weight	100g	

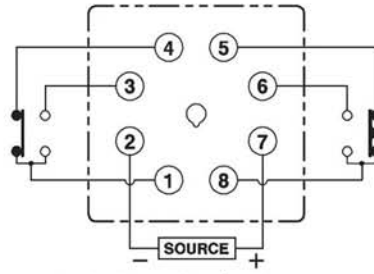
Wiring diagram

KTM-AM8: Mode 1 or 5



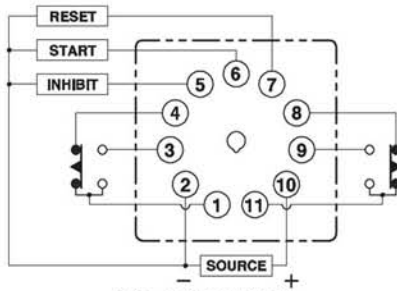
※ 24-240VAC 50/60Hz  
24-240VDC

KTM-AM8: Mode 2, 3, 4, 6



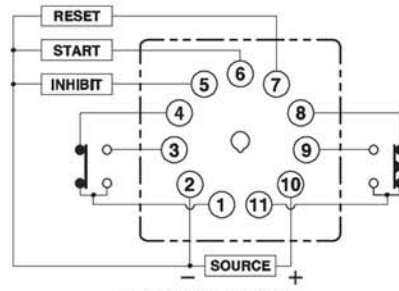
※ 24-240VAC 50/60Hz  
24-240VDC

KTM-AM11



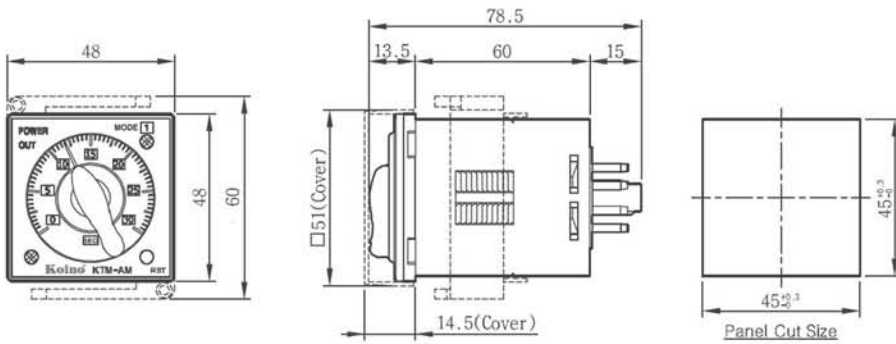
※ 24-240VAC 50/60Hz  
24-240VDC

KTM-AM11E

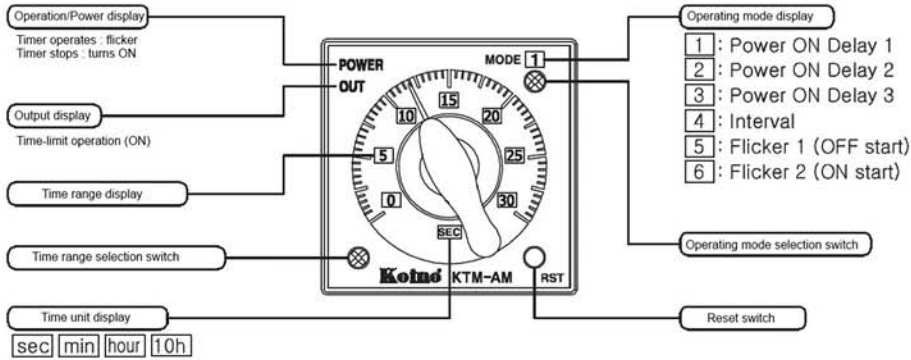


※ 24-240VAC 50/60Hz  
24-240VDC

Dimensions



**Operating Front Panel**



**Time range**

Time Unit	Time Range	Setting Time
Sec	1.2	0.05~1.2
Min	3	0.2~3
Hour	12	1~12
10 Hour	30	2~30

**Mode Setting**

Mode	Output	Output
	KTM-AM8	KTM-AM11
1	POWER ON DELAY 1	SIGNAL ON DELAY
2	POWER ON DELAY 2	FLICKER 1(OFF START)
3	POWER ON DELAY 3	FLICKER 2(ON START)
4	INTERVAL	INTERVAL
5	FLICKER 1(OFF START)	SIGNAL OFF DELAY
6	FLICKER 2(ON START)	SIGNAL; ON/OFF DELAY

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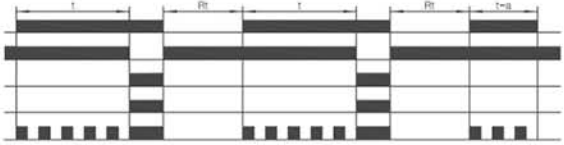

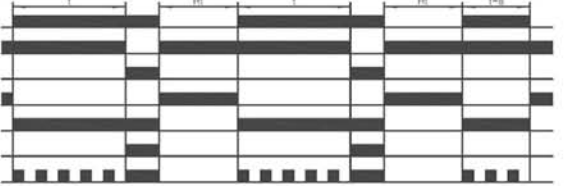
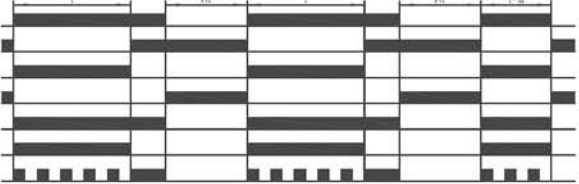
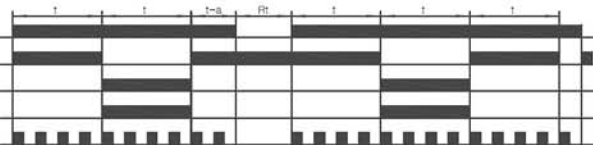
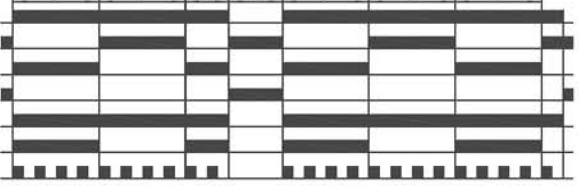
SOCKETS

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PID TEMP. CONTROLLER

Operating mode: KTM-AM8

Mode	Time line
<p>1</p> <p>Power ON Delay 1</p>	<p>Power 2-7 Time limit NC 1-4, 8-5 Time limit NO 1-3, 8-6 Time limit Indicator Power indicator</p> 
<p>2</p> <p>Power ON Delay 2</p>	<p>Power 2-7 Time limit NC 8-5 Time limit NO 8-6 Instantaneous NC 1-4 Instantaneous NC 1-3 Time limit Indicator Power indicator</p> 
<p>3</p> <p>Power ON Delay 3</p>	<p>Power 2-7 Time limit NC 8-5 Time limit NO 8-6 Instantaneous NC 1-4 Instantaneous NC 1-3 Time limit Indicator Power indicator</p> 
<p>4</p> <p>Interval</p>	<p>Power 2-7 Time limit NC 8-5 Time limit NO 8-6 Instantaneous NC 1-4 Instantaneous NC 1-3 Time limit Indicator Power indicator</p> 
<p>5</p> <p>Flicker 1 (OFF start)</p>	<p>Power 2-7 Time limit NC 1-4, 8-5 Time limit NO 1-3, 8-6 Time limit Indicator Power indicator</p> 
<p>6</p> <p>Flicker 2 (ON start)</p>	<p>Power 2-7 Time limit NC 8-5 Time limit NO 8-6 Instantaneous NC 1-4 Instantaneous NC 1-3 Time limit Indicator Power indicator</p> 

**Operating mode: KTM-AM11, KTM-AM11E**

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