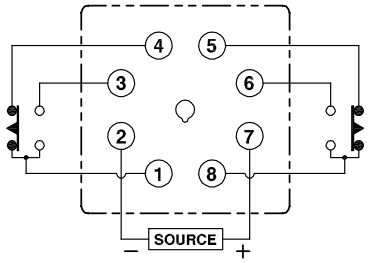
KTM–AM MULTI–TIMER

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 ㎲) 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	

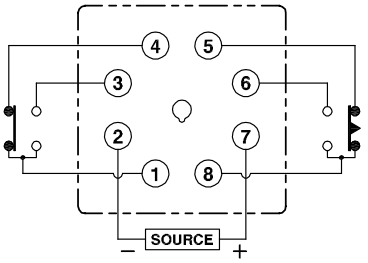
Wiring diagram

KTM-AM8: Mode 1 or 5



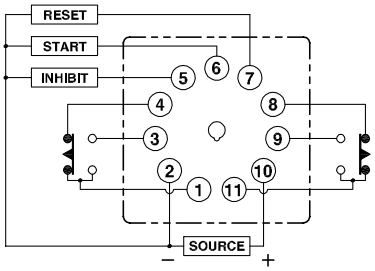
※24-240VAC 50/60Hz
24-240VDC

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



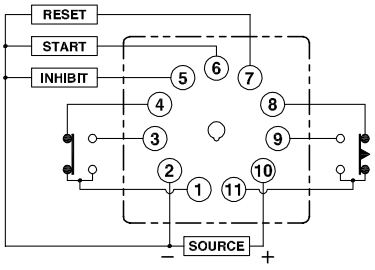
※24-240VAC 50/60Hz
24-240VDC

KTM-AM11



※24-240VAC 50/60Hz
24-240VDC

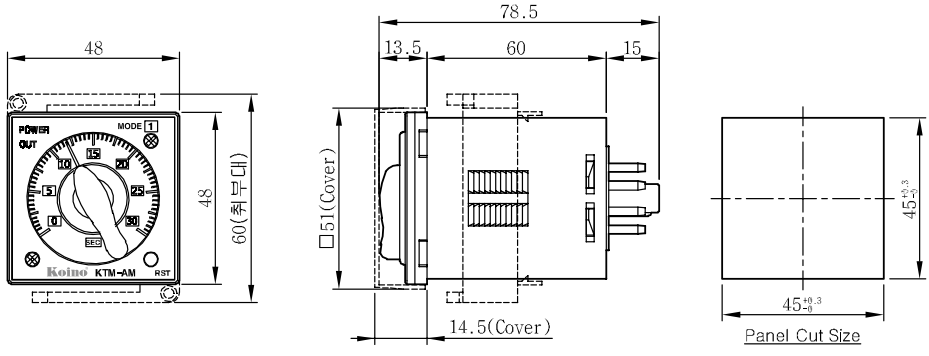
KTM-AM11E



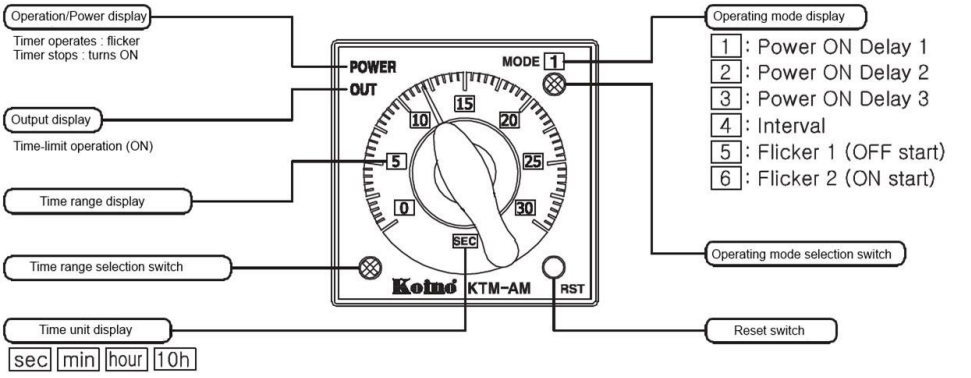
※24-240VAC 50/60Hz
24-240VDC

Dimensions

KTM-AM



Operating Front Panel



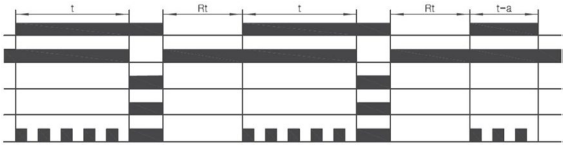
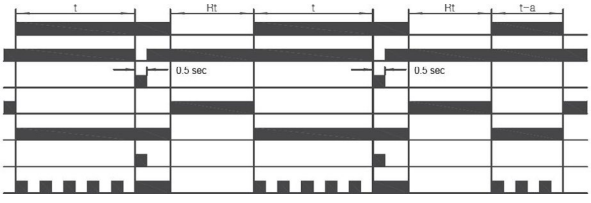
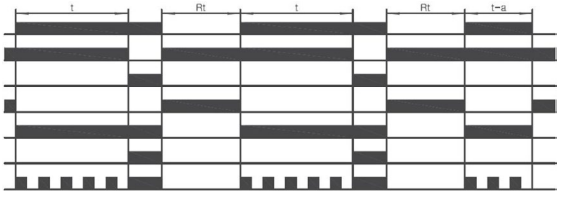
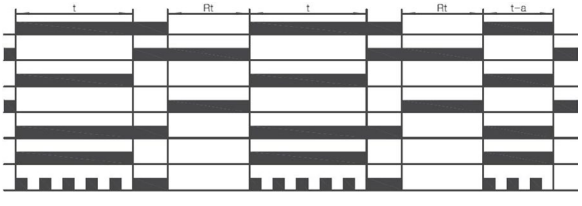
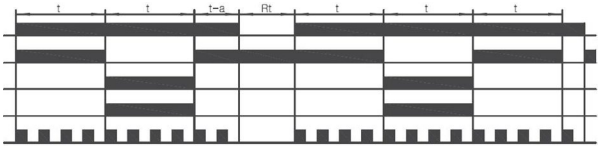
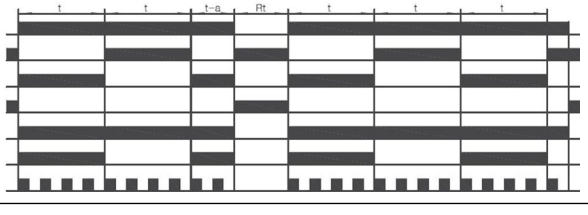
Time range

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

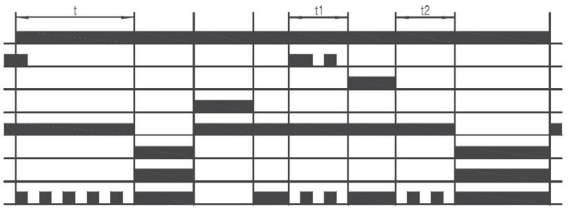
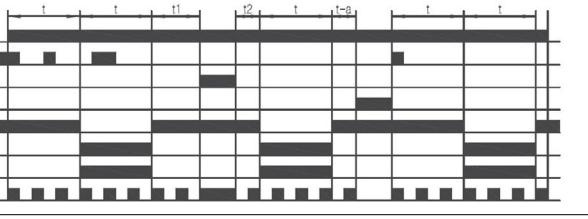
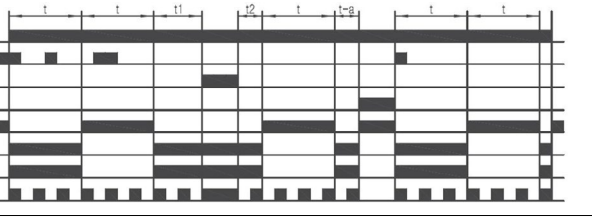
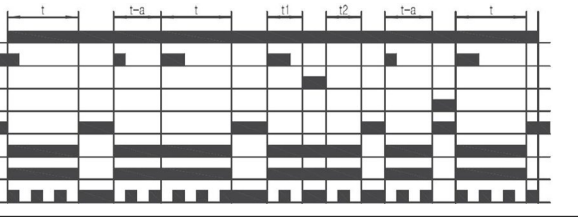
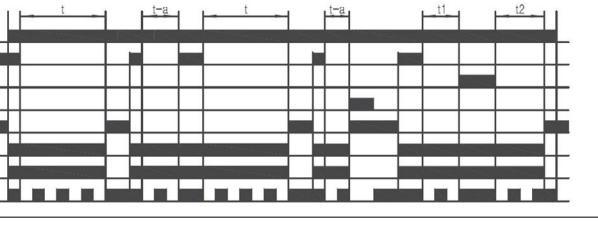
Mode Setting

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

Operating mode: KTM-AM8

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

Operating mode: KTM-AM11, KTM-AM11E

Mode	Time line
1 SIGNAL ON Delay 1	Power 2-10 START 2-6 INHIBIT 2-5 RESET 2-7 Time-limit contact NC Time-limit contact NO Time-limit output indicator Power/Operation indicator 
2 FLICKER1 (OFF START)	Power 2-10 START 2-6 INHIBIT 2-5 RESET 2-7 Time-limit contact NC Time-limit contact NO Time-limit output indicator Power/Operation indicator 
3 FLICKER2 (ON START)	Power 2-10 START 2-6 INHIBIT 2-5 RESET 2-7 Time-limit contact NC Time-limit contact NO Time-limit output indicator Power/Operation indicator 
4 Interval	Power 2-10 START 2-6 INHIBIT 2-5 RESET 2-7 Time-limit contact NC Time-limit contact NO Time-limit output indicator Power/Operation indicator 
5 SIGNAL OFF DELAY	Power 2-10 START 2-6 INHIBIT 2-5 RESET 2-7 Time-limit contact NC Time-limit contact NO Time-limit output indicator Power/Operation indicator 
6 SIGNAL ON/OFF DELAY	Power 2-10 START 2-6 INHIBIT 2-5 RESET 2-7 Time-limit contact NC Time-limit contact NO Time-limit output indicator Power/Operation indicator