Multi-Mode Relay Timers MK Series

Overview

The MK series relay timers are timing relays designed for process control, machine tool control, safety control and many other types of applications. The timers are DIN-rail mountable with up to 8 functions in one unit.

Fleeting/single shot on make:

The relay switches on immediately when energized and switches off after the time delay, or when deenergized.

Fleeting/single shot on break:

When energizing nothing happens. When deenergized, the relay switches on for the adjusted time and switches off after the time is elapsed.

Features

- Eight time ranges from 0.02 sec to 300hr selectable via rotational switches
- Voltage range 12– 240 VAC/VDC
- Eight functions can be set via rotational switch:
- Delay on energization (AV)
- Fleeting on make (EW)
- Delayed pulse (IE)
- Flasher, start with pulse (BI)
- Delay on de-energization (RV)
- Pulse forming function (IF)
- Fleeting on break (AW)
- Delay on energization and de-energization (AV / RV)



<u>MK7850N-82-200-61</u>

Multi-Mode Relay Timers MK Series							
Part Number	Price	Timer Type	Timing Range	Voltage	Output Type	Drawing Link	
<u>MK7850N-82-200-61</u>	\$64.00	Multi-mode	0.02 seconds to 300 hours selectable	12-240 VAC/VDC	2 changeover contacts, one programmable as instantaneous	PDF	

Multi-Mode	Relay Timers Specifications	Multi-Mo	Multi-Mode Relay Timers Specifications		
Input Specifications		General Specifications			
Nominal Voltage	12–240 VAC/VDC 12VAC ~ 1.5 VA 24VAC ~ 2VA 240VAC ~ 3VA	Connection (screw terminal)	1 x 4mm ² / 12AWG solid or 1 x 2.5 mm ² / 14 AWG stranded ferruled or 2 x 1.5 mm ² / 16 AWG stranded ferruled or 2 x 2.5 mm ² / 14 AWG solid		
Nominal Consumption	12VDC ~ 1W 24VDC ~ 1W 240VDC ~ 1W	Tightening Torque	0.8 N·m		
Nominal Frequency	45 – 400 Hz	Ambient Temperature	-40 to +60°C [-40 to +140°F]		
Contact Specifications		Storage	-40 to +70°C		
Туре	2 changeover contacts, one programmable as instantaneous	Temperature Relative Air	[-40 to +158°F]		
Contact Material	AqNi	Humidity	93% at 40°C		
Measured Nominal	5	Protection Rating	Housing IP40 / Terminals IP20		
Voltage	250VAC N.O. Contact 3A / 230VAC	Vibration Resistance	Amplitude 0.35 mm frequency 10 – 55Hz		
Switching Capacity (according to AC 15)	N.C. Contact 3A / 230VAC	Mounting	35mm Din-rail		
Electrical Lifetime	1.5 x 10 ⁵ switching cycle (to AC 15 at 1A, 230VAC)	Relay Indicator	Green LED: On, when supply connected Yellow LED "R/t": Shows status of output relay and time delay: -Continuously off: Output relay not active; no time delay -Continuously on: Output relay active no time delay -Flashing (short on, long off) output relay not active, time delay		
Switching Frequency	36,000 switching cycle / hr				
Max Fuse Rating	4A				
Mechanical Lifetime	\geq 30 x 10 ⁶ switching cycles		-Flashing (long on, short off) output relay active, time delay		
Time Circuit Specifications		Weight (g [oz])	150.0 [5.29]		
Time Ranges	8 time ranges in one unit, selectable via rotational switch 0.02 ~ 1 sec, 0.06 ~ 6 sec, 0.3 ~ 30 sec 0.03 ~ 3 min, 0.3 ~ 30 min, 3 ~ 300 min 0.3 ~ 30 hr. 3 ~ 300 hr	Agency Approvals and Standards *	cULus, CE		
Time Cotting		UL Data			
Time Setting	t1 - continuous, 1:100 on relative scale 24VDC 15ms	Switching Capacity	Ambient temperature 60°C: Pilot duty B300 5A 250VAC G.P.		
Recovery Time	240VDC 50ms 230VAC 80ms	UL Specified Wire Connection	60°C / 75°C copper conductors only Screw terminals fixed: AWG 20 – 12 solid or stranded Torque 0.8 Nm		
Repeat Accuracy	$\pm~0.5\%$ of selected end of scale value +20ms				
Voltage and Temperature Influence	≤ 1% with the complete operating range	*To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.			