

# Dold Relay Timers

## MK Series Cyclic Relay Timer

### Features

- 8 time ranges from 0.05 sec to 300hr selectable via rotational switches
- Impulse and break time separately adjustable
- Selectable start with impulse or break
- Voltage range 12–240 VAC/VDC
- Adjustment aid for quick setting of long time values
- Suitable for 2-wire proximity sensor control
- LED indicators for operation, contact position, and time delay
- 2 changeover contacts



MK7854N-82-61

Cyclic Relay Timer						
Part Number	Price	Timer Type	Timing Range	Voltage	Output Type	Drawing Link
<a href="#">MK7854N-82-61</a>		Cyclic	0.05 seconds to 300 hours selectable	12–240 VAC/VDC	2 changeover contacts	<a href="#">PDF</a>

Cyclic Relay Timer Specifications Table	
<b>Input Specifications</b>	
<b>Nominal Voltage</b>	12–240 VAC/VDC
<b>Nominal Consumption</b>	12VAC ~ 1.5 VA 24VAC ~ 2VA 240VAC ~ 3VA 12VDC ~ 1W 24VDC ~ 1W 240VDC ~ 1W
<b>Contact Specifications</b>	
<b>Type</b>	2 changeover contacts
<b>Contact Material</b>	AgNi
<b>Measured Nominal Voltage</b>	250VAC
<b>Switching Capacity (according to AC 15)</b>	N.O. Contact 3A / 230VAC N.C. Contact 1A / 230VAC
<b>Electrical Lifetime</b>	1.5 x 10 <sup>5</sup> switching cycle (to AC 15 at 1A, 230VAC)
<b>Switching Frequency</b>	36,000 switching cycle / hr
<b>Max Fuse Rating</b>	4A
<b>Mechanical Lifetime</b>	≥ 30 x 10 <sup>6</sup> switching cycles
<b>Time Circuit Specifications</b>	
<b>Time Ranges</b>	8 time ranges in one unit, selectable via rotational switch 0.05 ~ 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
<b>Time Setting</b>	t1, t2 - continuous, 1:100 on relative scale
<b>Recovery Time</b>	24VDC 15ms 240VDC 50ms 230VAC 80ms
<b>Repeat Accuracy</b>	± 0.5% of selected end of scale value
<b>Voltage and Temperature Influence</b>	≤ 1% with the complete operating range

Cyclic Relay Timer Specifications Table	
<b>General Specifications</b>	
<b>Connection (screw terminal)</b>	1 x 4mm <sup>2</sup> / 12AWG solid or 1 x 2.5 mm <sup>2</sup> / 14 AWG stranded ferruled or 2 x 1.5 mm <sup>2</sup> / 16 AWG stranded ferruled or 2 x 2.5 mm <sup>2</sup> / 14 AWG solid
<b>Tightening Torque</b>	0.8 N·m
<b>Ambient Temperature</b>	-40 to +60°C [-40 to +140°F]
<b>Storage Temperature</b>	-40 to +70°C [-40 to +158°F]
<b>Relative Air Humidity</b>	93% at 40°C
<b>Protection Rating</b>	Housing IP40 / Terminals IP20
<b>Vibration Resistance</b>	Amplitude 0.35 mm frequency 10 – 55Hz
<b>Mounting</b>	35mm Din Rail
<b>Relay Indicator</b>	Green LED: On, when voltage connected Yellow LED "R/t": Shows status of output relay and time delay: -Flashing (short on, long off) : Output relay not active; time delay t2 (break time) -Flashing (long on, short off) output relay active; time delay t1 (pulse time)
<b>Weight (g [oz])</b>	150.0 [5.29]
<b>Agency Approvals and Standards</b>	cULus, CE
<b>UL Data</b>	
<b>Switching Capacity</b>	Ambient temperature 60°C: Pilot duty B300 5A 250VAC G.P.
<b>UL Specified Wire Connection</b>	60°C / 75°C copper conductors only Screw terminals fixed: AWG 20 – 12 solid or stranded Torque 0.8 Nm