

# Dold Relay Timers

## Off-Delay Relay Timers MK Series

### Features

- 8 time ranges from 0.05 sec to 300 hr selectable via rotational switch
- Voltage range 12–240 VAC/VDC for auxiliary supply and control input
- Adjustment aid for quick setting of long time values
- Input for interruption of timing
- LED indicators for operation, contact position and time delay
- 2 changeover contacts



**MK9962N-82-61**

### Off-Delay Relay Timers MK Series

Part Number	Price	Timer Type	Timing Range	Voltage	Output Type	Drawing Link
<b>MK9962N-82-61</b>	\$,4tkj	Off-delay	0.05 seconds to 300 hours selectable	12-240 VAC/VDC	2 changeover contacts	<a href="#">PDF</a>

### Off-Delay Relay Timers Specifications

Input Specifications	
<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
Contact Specifications	
<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>	6,000 switching cycles / hr
<b>Max Fuse Rating</b>	4A
<b>Mechanical Lifetime</b>	≥ 30 x 10 <sup>6</sup> switching cycles
Time Circuit Specifications	
<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>	Continuous, 1:100 on relative scale
<b>Minimum on Time</b>	AC 50 Hz - 15ms DC - 5 ms
<b>Repeat Accuracy</b>	± 0.5% of selected end of scale value + 20ms
<b>Voltage and Temperature Influence</b>	≤ 1% with the complete operating range

### Off-Delay Relay Timers Specifications

General Specifications	
<b>Connection (cage clamp 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 auxiliary voltage connected Yellow LED "R/I": shows status of output relay and time delay: - LED off output relay not active; no time delay - LED continuously on output relay active; no time delay (B1 input active) - LED flashing output relay active; long on, short off - time delay
<b>Weight (g [oz])</b>	150.0 [5.29]
<b>Agency Approvals and Standards *</b>	cULus, CE
UL Data	
<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

\*To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.