

# Dold Relay Timers

## MK Series On-Delay Relay Timer

### 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



MK9906N-82-61

| On-Delay Relay Timer          |       |            |                                      |                |   |                     |
|-------------------------------|-------|------------|--------------------------------------|----------------|---|---------------------|
| Part Number                   | Price | Timer Type | Timing Range                         | Voltage        | Output Type   | Drawing Link        |
| <a href="#">MK9906N-82-61</a> |       | On-delay   | 0.05 seconds to 300 hours selectable | 12-240 VAC/VDC | 2 changeover contacts one programmable as instantaneous | <a href="#">PDF</a> |

| On-Delay Relay Timer Specifications Table      |   |
|--|---|
| Input Specifications                           |   |
| <b>Nominal Voltage</b>                         | 12-240 VAC/VDC  |
| <b>Nominal Consumption</b>                     | 12VAC ~ 1.5 VA<br>24VAC ~ 2VA<br>240VAC ~ 3VA<br>12VDC ~ 1W<br>24VDC ~ 1W<br>240VDC ~ 1W  |
| Contact Specifications                         |   |
| <b>Type</b>                                    | 2 changeover contacts one programmable as instantaneous   |
| <b>Contact Material</b>                        | AgNi  |
| <b>Measured Nominal Voltage</b>                | 250VAC  |
| <b>Switching Capacity (according to AC 15)</b> | N.O. Contact 3A / 230VAC<br>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   |
| Time Circuit Specifications                    |   |
| <b>Time Ranges</b>                             | 8 time ranges in one unit, selectable via rotational switch<br>0.05 ~ 1 sec, 0.06 ~ 6 sec, 0.3 ~ 30 sec<br>0.03 ~ 3 min, 0.3 ~ 30 min, 3 ~ 300 min<br>0.3 ~ 30 hr, 3 ~ 300 hr |
| <b>Time Setting</b>                            | Continuous, 1:100 on relative scale   |
| <b>Recovery Time</b>                           | 24VDC 15ms<br>240VDC 50ms<br>230VAC 80ms  |
| <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  |

| On-Delay Relay Timer Specifications Table |   |
|---|---|
| General Specifications                    |   |
| <b>Connection (cage clamp terminal)</b>   | 1 x 4mm <sup>2</sup> / 12AWG solid or<br>1 x 2.5 mm <sup>2</sup> / 14 AWG stranded ferruled or<br>2 x 1.5 mm <sup>2</sup> / 16 AWG stranded ferruled or<br>2 x 2.5 mm <sup>2</sup> / 14 AWG solid   |
| <b>Tightening Torque</b>                  | 0.8 N·m   |
| <b>Ambient Temperature</b>                | -4 to +60°C<br>[-40 to +140°F]  |
| <b>Storage Temperature</b>                | -40 to +70°C<br>[-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 0.35mm frequency 10 – 55Hz  |
| <b>Mounting</b>                           | 35mm Din Rail   |
| <b>Relay Indicator</b>                    | Green LED: On, when voltage connected<br>Yellow LED "R/t": Shows status of output relay and time delay:<br>- Flashing (long on, short off) output relay not active; time delay<br>- Continuously on: output relay active after 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<br>5A 250VAC G.P.   |
| <b>UL Specified Wire Connection</b>       | 60°C / 75°C copper conductors only<br>Screw terminals fixed: AWG 20 – 12 solid or stranded<br>Torque 0.8 Nm   |