1-800-633-0405 **Dold Relay Timers**

Relay Timers RK Series

Overview

The RK series timers are timing relays that have been designed to be economical and compact to meet the demands of all the modern time control needs. With a few variants of single function and a multi-function model, the RK series covers all common timing functions, time ranges and voltage needs. These timers are suitable for time-dependent control needs in most industrial automation and building automation systems.

Features

RK7814

- 4 time ranges up to 120 sec
- · LED indicator for state of contact
- Dual-voltage version 110 127VAC + 24 VAC/VDC
- 1 changeover contact

RK7815, RK7816

- Time ranges up to 10 sec
- LED indicator for state of contact
- 1 changeover contact
- Dual voltage version 110 127 VAC + 24 VAC/VDC

RK7817

- 8 time ranges adjustable from 0.02 sec to 300 hr via rotational switches
- Dual-voltage-version 110 127VAC + 24 VAC/VDC
- 1 changeover contact
- 8 selectable functions via rotational switches
- 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)





RK7815-71-61



RK7816-81-61



RK7817-81-61

On-Delay Relay Timer RK Series						
Part Number	Number Price Timer Type Timing Range		Voltage	Output Type	Drawing Link	
<u>RK7814-81-61</u>	\$36.50	On-delay	0.05 to 120 seconds selectable	24 VAC/VDC and 110-127 VAC	1 changeover contact	<u>PDF</u>

Fleeting (single shot) Relay Timer RK Series						
Part Number	Price	Timer Type	Timing Range	Voltage	Output Type	Drawing Link
<u>RK7815-71-61</u>	\$34.00	Fleeting (single-shot)	1 to 10 seconds	24 VAC/VDC and 110-127 VAC	1 changeover contact	<u>PDF</u>

Flasher Relay Timer RK Series						
Part Number Price Timer Type Timing Range		Voltage	Output Type	Drawing Link		
<u>RK7816-81-61</u>	\$34.00	Flasher	1 to 10 seconds	24 VAC/VDC and 110-127 VAC	1 changeover contact	<u>PDF</u>

Multi-Mode Relay Timer RK Series						
Part Number	Price Timer Type Timing Range		Timing Range	Voltage	Output Type	Drawing Link
<u>RK7817-81-61</u>	\$43.50	Multi-mode	0.02 seconds to 300 hours selectable	24 VAC/VDC and 110-127 VAC	1 changeover contact	<u>PDF</u>

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Relay Timers RK Series Specifications						
Part Number	<u>RK7814-81-61</u>	RK7815-71-61	<u>RK7816-81-61</u>	<u>RK7817-81-61</u>		
Input Specifications						
Nominal Voltage	24 VAC/VDC ¹ + 110-127 VAC ² 24 VAC/VDC ¹ + 110-127 VAC ²					
Nominal Consumption	24VAC ~ 1VA 230VAC ~ 6VA 24VDC ~ 0.4 W			24VAC ~ 1VA 230VAC ~ 7.5 VA 24VDC ~ 0.5 W		
Nominal Frequency				50/60 Hz		
Frequency Range				± 5%		
Contact Specifications						
Туре			1 char	ngeover contact		
Switching Capacity (according to AC 15)				ntact 2A / 230VAC ntact 1A / 230VAC		
Max Wire Size			22–14 AW	G solid or stranded		
Mechanical Lifetime			> 1x10 ⁷	switching cycles		
Electrical Lifetime			> 1x10 ⁵	⁵ switching cycle		
Time Circuit Specifications						
Time Ranges	0.05 ~ 0.5 sec, 0.2 ~ 2 sec, 1.5 ~ 15 sec, 12 ~ 120 sec	1 ~ 10 sec		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 (* 0.08 s for AV and IE functions)		
Time Setting	Infinite, 1:10 on relative scale			Infinite, 1:100 on relative scale		
Recovery Time				< 100ms		
Repeat Accuracy	≤ 0.50	% of set time delay + 10	ms	\leq 0.8% of set time delay + 20ms		
Voltage Influence				≤ 1%		
Temperature Influence		0.25 % / K		≤ 2% at range 0 – 60°C ≤ 5% at range -20 – 0°C		
General Specifications						
Connection (fixed screw terminal)	0.34 – 2 x 2.5 mm² / 22–14 AWG solid or 0.34 – 2 x 2.5 mm² / 22–14 AWG stranded wire with and without ferrules					
Tightening Torque				0.5 N·m		
Ambient Temperature	-40 1	o +60°C [-40 to +140°	F]	-20 to +60°C [-4 to +140°F]		
Storage Temperature	-40 1	o +70°C [-40 to +158°	F]	-25 to +70°C [-13 to +158°F]		
Relative Air Humidity			93	% at 40°C		
Protection Rating	Housing IP40 / Terminals IP20					
Vibration Resistance			Amplitude 0.35	mm frequency 10 – 55Hz		
Mounting			35	mm Din-rail		
Relay Indicator	On, when corresponding output relay is active (contact 15–18 closed)			Green LED: On, when supply connected Yellow LED "R/k": Shows status of output relay and time delay (15-16-18): -Continuous off: Output relay not active;no time delay -Continuous on: Output relay active no time delay -Flashing (short on, long off) Time delay: output relay not active -Flashing (long on, short off) Time delay: output relay active		
Weight (g [oz])	65.0 [2.29]	60.0 [2.11]	70.0 [2.46]		
Agency Approvals and Standards *	cULus, CE					
UL Data						
Switching Capacity	Ambient temperature 60°C: Pilot duty B300 4A 240VAC G.P. 4A 30VDC G.P.					
UL Specified Wire Connection	60°C / 75°C copper conductors only AWG 22 – 14 solid or stranded Torque 0.5 N⋅m					

Notes: ¹at terminals A3-A2 ² at terminals A1-A2

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