

多功能时间继电器 ......

Front view: function selector and regulators

前视图: 功能选择器和调节器



# **EKR8-5 Series Multi-function Time Relay**



### 多功能时间继电器 ......

#### Multi-function Time Relay 多功能时间继电器

Time relay is an automatic control unit, that can be combined with various other electrical equipment to achieve automatic control of the operating circuit. After a preset time expires, the contact output will be closed or opened, which will enable the terminal electrical equipment to automatically run or stop. 时间继电器是一种自动化控制单元,可以结合其他各种电器设备,实现自动控制运行线路,在一个预设定的时间结束后,闭合或者断开触点输出,使终端电器实现自动运行或者停止。 This series of time relay has the advantages of wide operating voltage range, clear working instructions, small volume, uniform size, easy installation, etc. 本系列时间继电器具有工作电压范围广,工作指示清晰,体积小,尺寸统一,便于安装等优点。

Application 应用领域: Industrial machinery 工业机械 Illumination 照明 Manufacturing 制造业 HVAC system 暖通空调系统 Food and agriculture 食品和农业

## **EKR8-5 Series**







Output Characteristics 输出特性	EKR8-531T	EKR8-532T	
Output Characteristics 输出特性	SPDT	DPDT	
Contact Material 触点材料	Silver Alloy 银合金		
Current Rating 额定电流	16A@240VAC,24VDC		
Minimum Switching Requirement 最低转换要求	100mA		
Input Characteristics 输入特性			
Voltage Range 电压范围	12-240VAC/DC		
Contact Material 触点材料	Silver Alloy银合金		
Operating Range(% of Nominal) 工作范围.	85% - 110%		
Timing Characteristics 时间特性			
Functions Available 可用的功能	10		
Time Scales 时间尺度	10		
Time Ranges 时间范围	0.1s~10D(0.1秒~10天)		
Minimum Switching Requirement 最低转换要求	100mA		
Tolerance(Mechanical Setting) 公差(机械设置)	5%		
Reset Time 重置时间	150ms		
Trigger Pulse Length(Minimum) 触发脉冲长度(最小)	50ms		
Environment 环境			
Ambient Temperature around the device 设备周围环境温度	Storage 存储温度:-30°C ~ +70°C (-22°F~ +158°F) Operation 操作温度:-20°C ~ +55°C (-4°F~ +131°F)		
Dimensions外形尺寸图:in 英寸(mm 毫米)	Wiring Diagrams 接线图		
2.6MA X   0.7	Un	Un	
0.63 (36.2) (31) (18) (18) (18) (18) (18) (18) (18) (1	A1 S A2	A1 S A2	
1.4 (35) (67.5) (67.5) (67.5) (67.5) (67.5) (67.5) (67.5) (67.5) (67.5)	R	R1 R	

EKR8-531T

EKR8-532T

# EKR8-5 Series Multi-function Time Relay



Function 功能	Operation 描述	Timing Chart 时序图
A On Delay Power On 通电延时	When the input voltage U is applied, timing delay t begins. Relay contacts R change state after time delay is complete. Contacts R return to their shelf state when input voltage U is removed. Trigger switch is not used in this function. 输入电压U,设定的延时t开始工作,当延时完成,继电器触点R 吸合,直到切断电源,继电器触点R复位。	U R off
B Repeat Cycle Starting Off 循环模式1	When the input voltage U is applied, timing delay t begins. When time delay t is complete, relay contacts R change state for time delay t. This cycle will repeat until input voltage U is removed. Trigger switch is not used in this function. 输入电压U,设定的延时t开始工作,当延时完成,继电器触点R吸合,重复延时t,继电器触点R释放,重复此过程。	U R on t t t t t
<mark>C</mark> Interval Power On 断开延时	When input voltage U is applied, relay contacts R change state Immediately and timing cycle begins. When time delay is complete, contacts return to shelf state. When input voltage U is removed, contacts will also return to their state. Trigger switch is not used in this function. 输入电压U,继电器触点R吸合,设定的延时t开始工作,当延时完成,继电器触点R复位。	U t t
D Off Delay S Break 触发模式1	Input voltage U must be applied continuously. When trigger S is closed, relay contacts R change state. When trigger S is opened, delay t begins. When delay t is complete, contacts R return to their shelf state. If trigger S is closed before time delay t is complete, then time is reset. When trigger S is opened, the delay begins again, and relay contacts remain in their energized state, if input voltage U is removed, relay contacts R return to their shelf state.  输入电压U,当触发开关S闭合,继电器触点R吸合,S断开,延时t开始工作,当延时完成,继电器触点R释放复位,如果在延时t未完成之前,而触发开关S再次闭合,延时设定t会复位。	Close S Open on R off
E Retriggerable One Shot 触发模式2	Upon application of input voltage U, the relay is ready to accept trigger signal S. upon application of the trigger signal S, the relay contacts R transfer and the preset time t begins. At the end of the preset time t, the relay contacts R return to their normal condition unless the trigger signal S is opened and closed prior to time out t (before preset time elapses). Continuous cycling of the trigger signal S at a rate faster than the preset time will cause the relay contacts R to remain closed. If input voltage U is removed, relay contacts R return to their shelf state. 输入电压U, 当触发开关S闭合,继电器触点R吸合,延时t开始工作,不管S是否断开,t完成,继电器触点R释放。如果在延时t未完成之前,而触发开关S用次闭合,延时设定t会复位。	S Close Open on R off
F Repeat Cycle Starting ON 循环模式2	When input voltage U is applied, relay contacts R change state immediately and time delay t begins. When time delay t is complete, contacts return to their shelf state for time delay t. This cycle will repeat until input voltage U is removed. Trigger switch is not used in this function. 输入电压U,继电器触点R吸合,延时计分工作,当延时完成,继电器触点R吸合,逐时计分工作。当延时完成,继电器触点R联合,重复此过程。	U on t t t t
G Pulse Generator 脉冲模式	Upon application of input voltage <mark>U</mark> , a single output pulse of 0.5 seconds is delivered to relay offer time delay t. Power must be removed and reapplied to repeat pulse. Trigger switch S is not used in this function. 输入电压U, 延时t开始工作,当延时完成,输出0.5S的脉冲信号给继电器。	U Pulse t Puls
<mark>- </mark> One Shot 触发模式3	Upon application of input voltage U, the relay is ready to accept trigger signal S. Upon application of the trigger signal S, the relay contacts R trasher and the preset time t begins. During time-out, the trigger signal S is ignored. The relay resets by applying the trigger signal S when the relay is not energized. 输入电压U, 当触发开关S闭合, 继电器触点RWG, 延时打始, 不管S是否断开,当延时完成,继电器触点R释放,此模式和E模式区别在于,忽略延时过程中触发开关是否重新触发信号,延时设定不会复位。	U S Close S Open on R off
On/Off Delay S Make/Break 触发模式4	Input voltage U must be applied continuously. When trigger S is closed, time delay t begins. When time delay t is complete, relay contacts R change state and remain transferred until trigger S is opened. If input voltage U is removed, relay contacts R return to their shelf state. 输入电压U,当触发开关S闭合,延时扩开始工作,延时t完成,继电器触点R 吸合,当触发开关S断开,重新开始延时t,当延时t完成,继电器触点R释放。	U S Close Open R on R off
J Memory Latch S Make 双稳态模式	Input voltage U must be applied continuously. Output changes state with every trigger S closure. If input voltage U is removed, relay contacts R return to their shelfsate. 输入电压U,每次触发开关S都会相应改变继电器触点R的状态,此过程延时t不起作用。	S Close Open On R off
	Loa d	
Relay Contact 16A	AC 1 AC 3	AC1 5 DC1(24/110/220V )
AgN i 100	00 W 4000V A 0.9kW	750V A 16A/0.5A/0.35 A