

Modular Style Time Delay Relays

FEATURES

Up to 10 Functions

Broad Timing Range (from 0.1 sec to 10 days) Contact Configuration Universal Power Supply 2 LED Status Indicators Only 17.5 mm Wide DIN Rail Mountable RoHS Compliant

BENEFITS

Environmentally Friendly

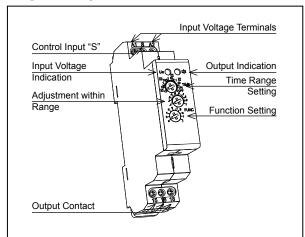
5 Timing Functions Controlled via Supply Voltage
4 Timing Functions Controlled via Trigger Input
1 Timing Function of Memory Latching Relay
Meets Most Timing Requirements
SPDT or DPDT
12 to 240 VAC/VDC
Indicates Coil Status at a Glance
Ideal for Tight Spaces
Easy Installation / No Tools



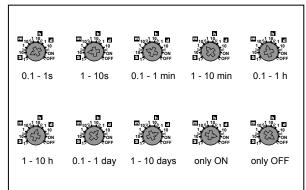
This device is designed for connection of 1-phase voltage, 12-240 V AC/DC and must be installed according to norms valid in existing state. Connections must be made according to details in this instruction sheet. Installation, connections, setting and servicing should be performed by qualified electrician staff, who understands this instruction sheet and functions of respective device.

Before starting installation ensure that the main switch is in "OFF" position and there should be no power going to the device. Qualified installer must also ensure the device is being installed into a temperature controlled environment which will guarantee not to exceed the specified maximum operating temperature. For installation use a screwdriver with 2 mm tip.

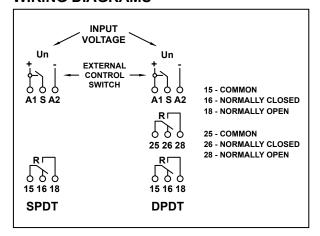
DESCRIPTION



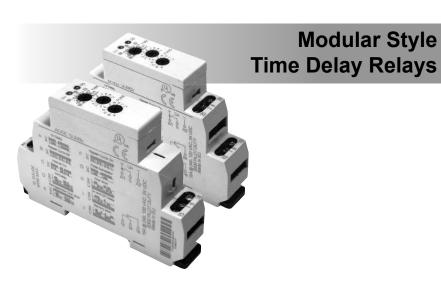
TIME RANGES



WIRING DIAGRAMS



Function	Operation	Timing Chart
A. ON DELAY Power On	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.	R of t t
B. REPEAT CYCLE Starting Off	When input voltage U is applied, time 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.	R on t t t t
C. INTERVAL Power On	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 shelf state. Trigger switch is not used in this function.	U t t
D. OFF DELAY S Break	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.	S close open t t t
E. RETRIGGE- RABLE ONE SHOT	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.	S open t t t t R off
F. FLASHER Starting On	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.	U t t t t
G. PULSE GENERATOR	Upon application of input voltage U, a single output pulse of 0.5 seconds is delivered to relay after time delay t. Power must be removed and reapplied to repeat pulse. Trigger switch S is not used in this function.	R on t
H. ONE SHOT	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. During time-out, the trigger signal S is ignored. The relay resets by applying the trigger signal S when the relay is not energized.	S close open t t t
I. ON/OFF DELAY S Make/Break	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.	S close open t t t t t
J. MEMORY LATCH S Make	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 shelf state.	S close open R on off

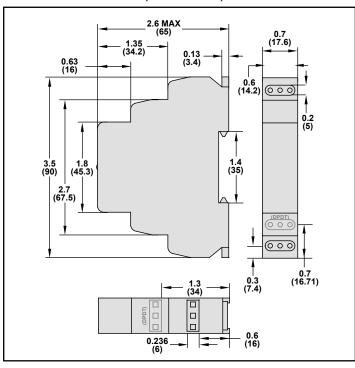


SPECIFICATIONS @ 25°C (UL 508)

OUTPUT CHARACTERISTIC	:s			
Number and type of contacts	SPDT or DPDT			
Contact material	Silver alloy			
Current rating		15 A @ 240 VAC,		
·	240 V 50/60 Hz			
	1/2 HP @ 120 V 50/60 Hz			
Switching voltage	1 HP @ 240 V 50/60 Hz			
	B300 pilot duty			
Minimum switching requirement	100 mA			
Indication	Red LED			
INPUT CHARACTERISTICS				
Voltage range	12 to 240 V 50/60 Hz/ VDC			
Operating range (% of nomina	85% to 110%			
Maximum consumption	3 VA (AC)			
	1.7 W (DC)			
Indication	Green LED			
TIMING CHARACTERISTICS	3			
Functions available	10			
Time scales	10			
Time ranges	0.1 sec to 10 days			
Tolerance (mechanical setting	5%			
Repeatability (constant voltage	e and temperature)	0.2%		
Reset time (maximum)		150 ms		
Trigger pulse length (minimur	m)	50 ms		
PERFORMANCE CHARACT	ERISTICS			
Electrical life (operations @ ra	ated current)	100,000 cycles (resistive)		
Mechanical life (unpowered)		10,000,000 cycles		
Dielectric strength	Input to contacts	2500 VAC		
	Between open contacts	1000 VAC		
Terminal wire capacity	14 AWG (2.1 mm²)			
Terminal torque (maximum)	7.1 lbf in (0.8 Nm)			
Field Wiring	75C Conductors			
ENVIRONMENT				
Product certifications	UL, CE, RoHS			
Ambient air temperature	Storage	-30 to +70 °C (-22 to +158 °F)		
Around the device	Operation	-20 to +55 °C (-4 to +131 °F)		
Degree of protection	IP 20			
Weight	65 grams (2.3 oz)			

DIMENSIONS INCHES (MILLIMETERS)

Modular Style



RELAY CONTACT 15 A	LOAD								
		=	⊐ ₽ ()	70µF		AC1A	С3	AC15	DC1 (24/110/220 V)
AgNi	1000 W					4000 VA	0.9 kW	750 VA	15 A/0.5 A/0.35 A