



TRYSTAR®

17.5 MM TIME DELAY RELAY

TE5 Series



Consistently Delivers Accurate Time Based Control Across a Variety of Applications.

Time Delay Relays provide a simple solution for process automation, motor control, energy efficiency, and many more applications.

The TE5 Series of 17.5MM time delay relays provide precise time-based control in a compact package, saving valuable space. Each product has a single dedicated function and time range so there is no complicated setup required before use. Time delays from 0.05 seconds up to 100 hours can be accomplished across 17 user-adjustable time ranges, or factory fixed times (non-adjustable) are also available. Select from 15 unique timing functions to meet your specific control and automation needs.

FEATURES:

- 15 Time Delay Functions available
- Universal Control Voltage: 24V-240V AC & 12-240V DC
- Adjustable or Factory Fixed Time ranges from 50ms to 100 hours
- Slim 17.5mm wide design for compact DIN Rail mounting
- LEDs indicate power applied, output relay status and timing mode
- 10A SPDT or DPDT outputs available
- Proudly manufactured in the United States



SPDT - No Trigger	SPDT - Trigger
DPDT - No Trigger	DPDT - Trigger

Application Data

Voltage Tolerance:

Control Voltage:

24-240 V AC

12-240 V DC

AC Operation +10/-15% of nominal at 50/60 Hz

DC Operation -10/15% of nominal

Load (Burden): Maximum of 4 VA

Setting Accuracy:

Maximum Setting (Adjustable): +5% -0%

Minimum Setting (Adjustable) +0% - 50%

Fixed Time Delay: $\pm 2\%$ or 50ms, whichever is greater

Repeat Accuracy:

Constant voltage and temperature $\pm 0.1\%$ or ± 0.05 seconds, whichever is greater

Changing voltage and temperature within limits $\pm 5\%$ or ± 0.1 seconds, whichever is greater

Reset Time:

Triggered with input Voltage: 0.1 seconds

Triggered with Control Switch: 0.04 seconds

Start-up Time:

Time from when power is applied until unit is timing: 0.05 seconds

Maintain Function Time:

Time unit continues to operate after power is removed: 0.01 Seconds. Interruptions

longer than this time may reset the timing cycle.

Minimum required trigger switch closure: 0.05 seconds

Temperature:

Operating: -28° to 65°C (-18° to 149°F)

Storage: -40° to 85°C (-40° to 185°F)

Output Contact Ratings: 10A @ 250VAC / 8A @ 30VDC
SPDT/ DPDT

Life:

Mechanical: 10,000,000 operations; Full load: 100,000 operations

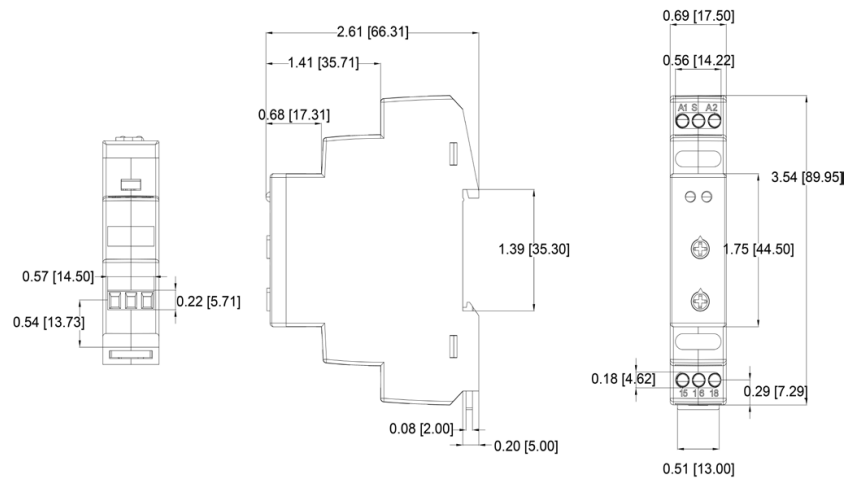
Mounting:

35mm DIN Rail required, panel mounting with screw not supported

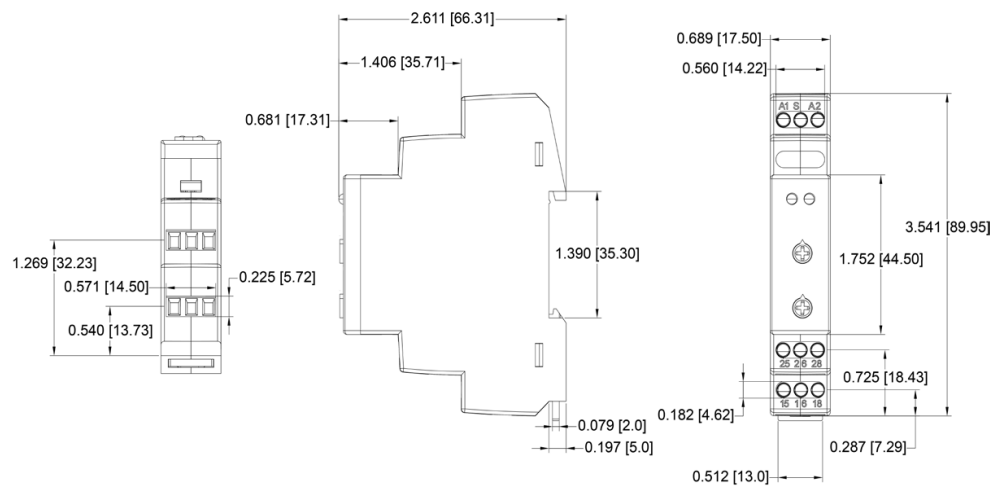
Wiring:

Flat blade (slotted) screw terminals, Wire size: 12-22AWG
Maximum tightening torque: 4in-lb. Recommend 1/8" (3 mm) screw drivers.

SPDT



DPDT



TYPICAL MODEL CODE

TE5 Series

Family		Function		Output Configuration	Control Voltage	Time Ranges		Standard Modifications	
TE5	17.5 MM Time Delay	SINGLE TIME		2 DPDT 6 SPDT	U 24-240V AC, 12-240V DC	-04	0.05 - 5 seconds	Z	Bulk Packaging
		02	On Delay			-30	0.1 - 10 seconds		
		05	Interval On			-07	0.3 - 30 seconds		
		08	Flasher (Off 1st)			-08	0.6 - 60 seconds		
		09	Flasher (On 1st)			-31	1 - 100 seconds		
		12	On Delay (Triggered)			-09	1.2 - 120 seconds		
		13	Watchdog (Triggered)			-10	1.8 - 180 seconds		
		15	Single Shot (Triggered)			-12	3 - 300 seconds		
		16	Off Delay (Triggered)			-36	10 - 1,000 seconds		
		22	Single Shot Falling Edge (Triggered)			-32	0.1 - 10 minutes		
		29	Memory Latch (Triggered)			-15	0.3 - 30 minutes		
		Dual Time				-16	0.6 - 60 minutes		
		31	Repeat Cycle (OFF 1st)			-33	1-100 minutes		
		41	On Delay/Off Delay (Triggered)			-37	10 - 1,000 minutes		
		51	Repeat Cycle (ON 1st)			-17	1.2 - 120 minutes		
		61	Delayed Interval			-34	0.1 - 10 hours		
		65	Delayed Interval (Triggered)			-35	1 - 100 hours		
						-F	Fixed Time Range (i.e., F5S for Fixed 5 seconds)		



TRYSTAR®