ON DELAY, INTERVAL, FLASHER, CYCLE & DELAYED INTERVAL

Solid State Output | THS Series

◆ Cost effective design & compact 2" x 2" enclosure are ideal for volume OEM applications

◆ Microprocessor-based design for greater performance & maximum f exibility

◆ Encapsulated for protection against harsh environments

◆ Output rated 1A continuous/10A inrush is perfect for high duty cycle/long life applications

◆ Onboard & remote adjustable or f xed time delays from 0.01 seconds to 100 hours

◆ Built-in load suppression eliminates need for separate protection

c ᴿᵁus CE

FUNCTION ■	VOL	INPUT TAGE	PRODUCT NUMBER **	WIRING ❖
ON DELAY ☐ [A]		24-240V AC 12-125V DC	THS-1024A-** THS-1024D-**	**Onboard Adjustable or Fixed Time Delay**
INTER VAL ON [B]		24-240V AC 12-125V DC	THS-1054A-** THS-1054D-**	
FLASHER (ON Time 1st) [E]		24-240V AC 12-125V DC	THS-1094A-** THS-1094D-**	**DIAGRAM 317**
REPEAT CYCLE * (OFF Time 1st) [L]		24-240V AC 12-125V DC	THS-1314A-** THS-1314D-**	**Remote Time Delay**
REPEAT CYCLE * (ON Time 1st) [M]		24-240V AC 12-125V DC	THS-1514A-** THS-1514D-**	
DELA YED INTERVAL * [N]		24-240V AC 12-125V DC	THS-1614A-** THS-1614D-**	**DIAGRAM 320**

■ See "Def nitions of Timing Functions".
☐ See Inline (Series-Connection) On Delay.
❖ Diagrams shown are for products with AC input voltage. For products with DC input voltage, the "+" terminal is 2 & the "-" terminal is 3.
* ON & OFF Time Ranges for these functions are the same.

** Complete Product Number using two-digit Code from Table below.

Time Delays

THS Series Products have three time delay options:

● **Onboard Adjustable Time Delay**--complete Product Number by adding two-digit Code from Table at right, i.e., THS-1054A-30 is an Interval On with a time delay range of 0.1-10 seconds.

● **Onboard Fixed Time Delay**--replace two-digit Code with suff x "F" followed by delay [0.1 ... 100] followed by (S) seconds, (M) minutes or (H) hours, i.e., THS-1054A-F5S is an Interval On with a time delay f xed at 5 seconds.

● **Remote Time Delay**--THS Series products can be built with two terminals for remote adjustable or f xed time delays.
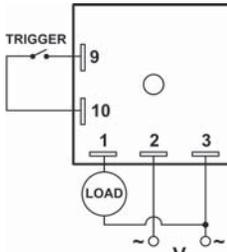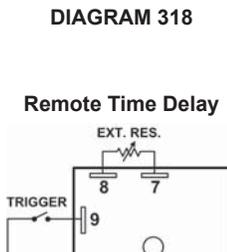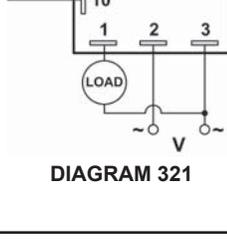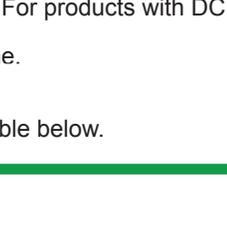
** TIMING RANGE TABLE	
Time Delay Range	**Code**
0.01 - 1 Sec.	02
0.05 - 5 Sec.	04
0.1 - 10 Sec.	30
1 - 100 Sec.	31
10 - 1,000 Sec.	36
0.1 - 10 Min.	32
1 - 100 Min.	33
10 - 1,000 Min.	37
1 - 100 Hr.	35

MACROMATIC

Better. By Design.

Build your Time Delay Relays with the _Online Product Builder_

OFF DELAY, SINGLE SHOT, WATCHDOG, SINGLE SHOT FALLING EDGE, ON DELAY/OFF DELAY & DELAYED INTERVAL

Solid State Output | THS Series

Isolated Control Switch

FUNCTION ■ VOLTAGE	INPUT VOLTAGE	PRODUCT NUMBER **	WIRING ❖
OFF DELAY C	24-240V AC 12-125V DC	THS-1164A-** THS-1164D-**	**Onboard Adjustable or Fixed Time Delay**
SINGLE SHOT D	24-240V AC 12-125V DC	THS-1154A-** THS-1154D-**	TRIGGER 9 10 1 2 3 LOAD ~ V ~
WATCHDOG (Retriggerable Single Shot) J	24-240V AC 12-125V DC	THS-1134A-** THS-1134D-**	**DIAGRAM 318**
SINGLE SHOT FALLING EDGE (Retriggerable) H	24-240V AC 12-125V DC	THS-1224A-** THS-1224D-**	**Remote Time Delay** EXT. RES. 8 7
ON/OFF DELAY * G	24-240V AC 12-125V DC	THS-1414A-** THS-1414D-**	TRIGGER 9 10 1 2 3 LOAD ~ V ~
DELAYED INTERVAL * (Retriggerable) P	24-240V AC 12-125V DC	THS-1654A-** THS-1654D-**	**DIAGRAM 321**
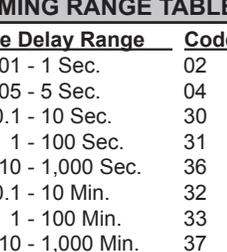
■ See "Definitions of Timing Functions".
❖ Diagrams shown are for products with AC input voltage. For products with DC input voltage, the "+" terminal is 2 & the "-" terminal is 3.
* ON & OFF Time Ranges for these functions are the same.

** Complete Product Number using two-digit Code from Table below.

Time Delays

THS Series Products have three time delay options:

● **Onboard Adjustable Time Delay**--complete Product Number by adding two-digit Code from Table at right, i.e., THS-1164A-30 is an Off Delay with a time delay range of 0.1-10 seconds.

● **Onboard Fixed Time Delay**--replace two-digit Code with suffix "F" followed by delay [0.1 ... 100] followed by (S) seconds, (M) minutes or (H) hours, i.e., THS-1164A-F5S is an Off Delay with a time delay fixed at 5 seconds.

● **Remote Time Delay**--THS Series products can be built with two terminals for remote adjustable or fixed time delays.

** TIMING RANGE TABLE	
Time Delay Range	**Code**
0.01 - 1 Sec.	02
0.05 - 5 Sec.	04
0.1 - 10 Sec.	30
1 - 100 Sec.	31
10 - 1,000 Sec.	36
0.1 - 10 Min.	32
1 - 100 Min.	33
10 - 1,000 Min.	37
1 - 100 Hr.	35

◆ Cost effective design & compact 2" x 2" enclosure are ideal for volume OEM applications

◆ Microprocessor-based design for greater performance & maximum flexibility

◆ Encapsulated for protection against harsh environments

◆ Output rated 1A continuous/10A inrush is perfect for high duty cycle/long life applications

◆ Onboard & remote adjustable or fixed time delays from 0.01 seconds to 100 hours

◆ Built-in load suppression eliminates need for separate protection

c**RU**us CE

MACROMATIC

Better. By Design.

Build your Time Delay Relays with the _Online Product Builder_

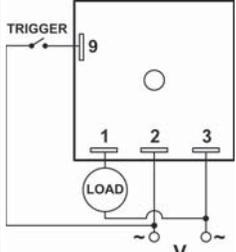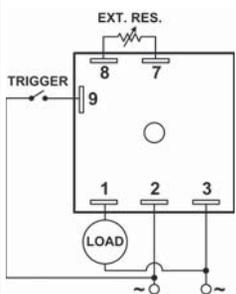# OFF DELAY, SINGLE SHOT, WATCHDOG, SINGLE SHOT FALLING EDGE, ON DELAY/OFF DELAY & DELAYED INTERVAL

SOLID STATE OUTPUT | THS SERIES

- ◆ Cost effective design & compact 2" x 2" enclosure are ideal for volume OEM applications
- ◆ Microprocessor-based design for greater performance & maximum f exibility
- ◆ Encapsulated for protection against harsh environments
- ◆ Output rated 1A continuous/10A inrush is perfect for high duty cycle/long life applications
- ◆ Onboard & remote adjustable or f xed time delays from 0.01 seconds to 100 hours
- ◆ Built-in load suppression eliminates need for separate protection

Control Switch Common to Pin 2

FUNCTION ■	VOL	TAGE	PRODUCT NUMBER **	WIRING ❖
OFF DELAY C	24-240V AC	12-125V DC	THS-1164A-**T THS-1164D-**T	**Onboard Adjustable or Fixed Time Delay**
SINGLE SHOT D	24-240V AC	12-125V DC	THS-1154A-**T THS-1154D-**T	
W ATCHDOG (Retriggerable Single Shot) J	24-240V	AC 12-125V DC	THS-1134A-**T THS-1134D-**T	**DIAGRAM 319**
SINGLE SHOT FALLING EDGE (Retriggerable) H	24-240V	AC 12-125V DC	THS-1224A-**T THS-1224D-**T	**Remote Time Delay**
ON/OFF DELAY * G	24-240V	AC 12-125V DC	THS-1414A-**T THS-1414D-**T	
DELA YED INTERVAL * (Retriggerable) P	24-240V	AC 12-125V DC	THS-1654A-**T THS-1654D-**T	**DIAGRAM 322**

■ See "Def nitions of Timing Functions".
❖ Diagrams shown are for products with AC input voltage. For products with DC input voltage, the "+" terminal is 2 & the "-" terminal is 3.
* ON & OFF Time Ranges for these functions are the same.

** Complete Product Number using two-digit Code from Table below.

Time Delays

THS Series Products have three time delay options:

- ● **Onboard Adjustable Time Delay**--complete Product Number by adding two-digit Code from Table at right, i.e., THS-1164A-30T is an Off Delay with a time delay range of 0.1-10 seconds.

- ● **Onboard Fixed Time Delay**--replace two-digit Code with suff x "F" followed by delay [0.1 ... 100] followed by (S) seconds, (M) minutes or (H) hours, i.e., THS-1164A-F5ST is an Off Delay with a time delay f xed at 5 seconds.

- ● **Remote Time Delay**--THS Series products can be built with two terminals for remote adjustable or f xed time delays.

** TIMING RANGE TABLE	
Time Delay Range	**Code**
0.01 - 1 Sec.	02
0.05 - 5 Sec.	04
0.1 - 10 Sec.	30
1 - 100 Sec.	31
10 - 1,000 Sec.	36
0.1 - 10 Min.	32
1 - 100 Min.	33
10 - 1,000 Min.	37
1 - 100 Hr.	35

MACROMATIC

Better. By Design.

Build your Time Delay Relays with the _Online Product Builder_