

# Time Delay Relays

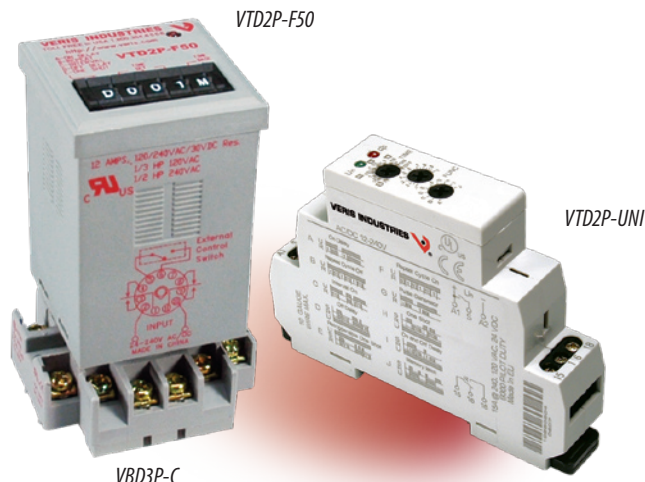
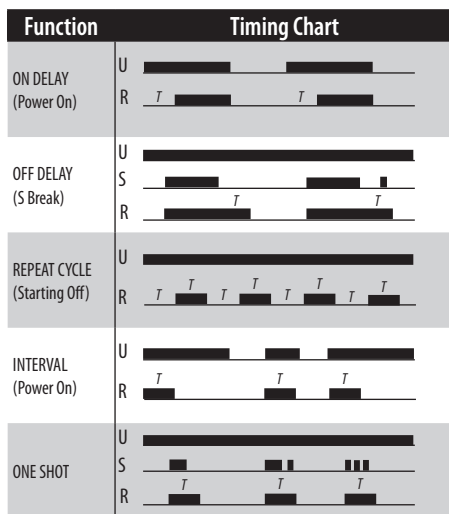
## Multi-Function Time Delay Relays For A Variety Of Applications

### FEATURES

#### Easy Installation

- VTD2P-F50 has thumb wheel adjustment for function and timing...ensures accuracy and eliminates mechanical deviation
- VTD1P/2P-UNI models are made with solid state relays for greater reliability
- Two different housings provide multiple mounting options

#### VTD2P-F50

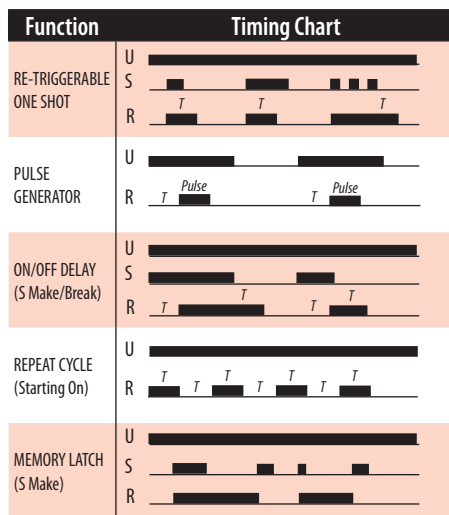


### DESCRIPTION

The Veris VTD Series are multi-function time delay relays equipped with an external control switch input and designed for easy socket/DIN mounting. The VTD2P-F50 includes five functions shown at left, while the VTD1P-UNI and VTD2P-UNI include the same five as the VTD2P-F50 plus five more, for the most versatile relay available. Save inventory costs by purchasing one relay for all the functions you need.

RELAYS

#### VTD1P-UNI, VTD2P-UNI



U: Applied input voltage S: Control switch (open or closed)  
R: Relay contacts (on or off) T: Time delay

TYPICAL COIL PERFORMANCE	
<b>Power Consumption</b>	
AC .....	2.5VA
DC.....	2W

CONTACT RATINGS	
(VTD2P-F50)	
Resistive .....	12A@240VAC, 30VDC
Pilot Duty.....	B300
(VTD1P-UNI, VTD2P-UNI)	
Resistive .....	15A@240VAC, 24VDC
Motor .....	1/2HP@120VAC; 1HP@240VAC
Pilot Duty .....	B300

	TIMING CHARACTERISTICS	
	VTD2P-F50	VTD1P-UNI, VTD2P-UNI
Functions Available	5	10
Time Ranges		
0.1 sec	0-999	1-10
sec	0-999	1-10
0.1 min	0-999	1-10
min	0-999	1-10
0.1 hr	0-999	1-10
hr	0-999	1-10
10 hr	0-999	---
0.1 day	---	1-10
day	---	1-10
Tolerance (mechanical setting)	0%	5%
Repeatability	0.1%	0.2%
Operate Time (max)	25ms	no spec
Reset Time (max)	150ms	150ms
Trigger Pulse Length (min)	---	50ms

### SPECIFICATIONS

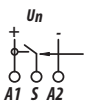
<b>Operating Range</b>	85% to 110% of nominal voltage
<b>Drop-out Voltage Threshold</b>	15% of nominal voltage
<b>Expected Relay Life</b>	Electrical (resistive @ rated current) 100,000 cycles; Mechanical (unpowered) 10,000,000 cycles
<b>Dielectric Strength</b>	1000VAC (RMS)
<b>Operating Temperature</b>	-20°C to 55°C (-4 to 131°F)

APPLICATION/WIRING EXAMPLES

DIMENSIONAL DRAWINGS

VTD1P-UNI

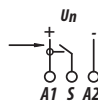
INPUT VOLTAGE



VTD2P-UNI

INPUT VOLTAGE

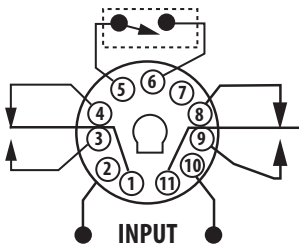
EXTERNAL CONTROL SWITCH



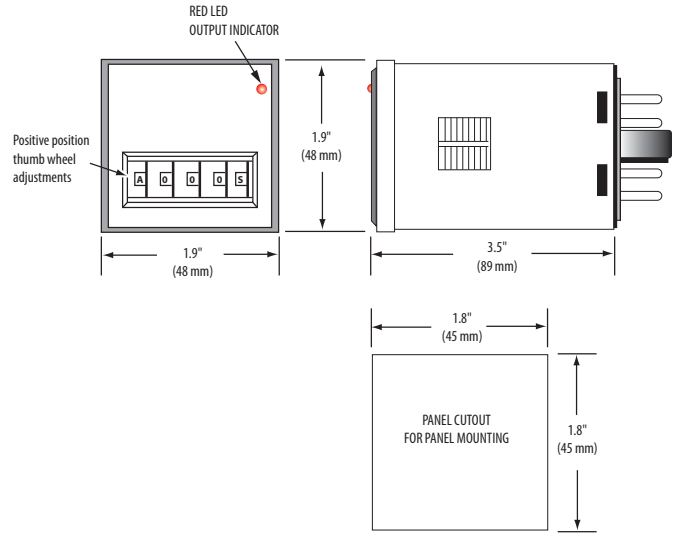
- 15 - COMMON
- 16 - NORMALLY CLOSED
- 18 - NORMALLY OPEN
- 25 - COMMON
- 26 - NORMALLY CLOSED
- 28 - NORMALLY OPEN

VTD2P-F50

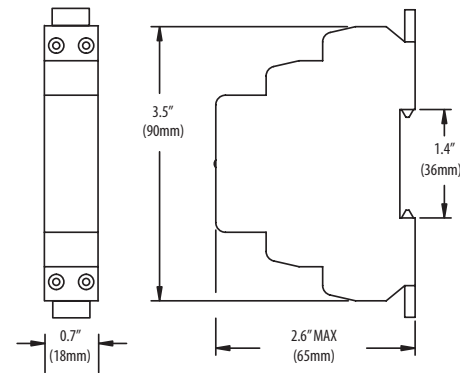
EXTERNAL CONTROL SWITCH



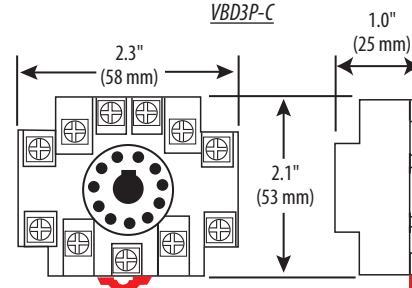
VTD2P-F50



VTD1P-UNI/VTD2P-UNI



VBD3P-C



RELAY ORDERING INFORMATION



MODEL	RELAY STYLE	No. of FUNCTIONS	AMPERAGE RANGE	COIL VOLTAGE	MIN. SWITCHING CURRENT	UL	CE
VTD2P-F50	DPDT	5	12	24-240VAC/DC	100mA@5VDC	Recognized*	●
VTD1P-UNI	SPDT	10	15	24-240VAC/DC		Listed	●
VTD2P-UNI	DPDT	10	15	24-240VAC/DC		Listed	●

\*Listed when used with Veris socket

SOCKET ORDERING INFORMATION

MODEL	AMPERAGE RATING	VOLTAGE RATING	UL	CE
VBD3P-C	15A	300	●	●

When relays and sockets are used together, the overall amperage rating is the lesser of the two ratings.