PrSense[®] Relay Timers

Off-Delay Relay Timers T2R-FD Series

Overview

The T2R-FD series offers a single off-delay timing function in a cost-effective design and compact size. The T2R-FD series is an ideal choice for many industrial applications. They utilize a microprocessor- based design for reliable performance and maximum flexibility. A 10A SPDT relay output can handle most pilot duty and fractional horsepower loads. All products are encapsulated for robust protection of internal components. This series is offered in a wide range of adjustable timing ranges.

Features

- Cost effective design and compact 2 x 2in enclosure
- Encapsulated for protection
- 10A SPDT relay output contacts
- 24VAC/VDC and 120VAC/VDC models available



T2R-FD-30-24AD

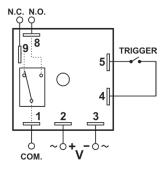
Off-Delay Relay Timers T2R-FD Series						
Part Number	Price	Timer Type	Timing Range	Voltage	Output Type	Drawing Link
T2R-FD-30-24AD	\$45.00	Off-delay	0.1 to 10 seconds	24 VAC/VDC	(1) SPDT timed relay	<u>PDF</u>
T2R-FD-30J-120A	\$45.00	Off-delay	0.1 to 10 seconds	120 VAC/VDC	(1) SPDT timed relay	PDF
T2R-FD-31-24AD	\$45.00	Off-delay	1 to 100 seconds	24 VAC/VDC	(1) SPDT timed relay	<u>PDF</u>
T2R-FD-31J-120A	\$45.00	Off-delay	1 to 100 seconds	120 VAC/VDC	(1) SPDT timed relay	PDF
T2R-FD-32-24AD	\$45.00	Off-delay	0.1 to 10 minutes	24 VAC/VDC	(1) SPDT timed relay	PDF
T2R-FD-32J-120A	\$45.00	Off-delay	0.1 to 10 minutes	120 VAC/VDC	(1) SPDT timed relay	<u>PDF</u>
T2R-FD-33-24AD	\$45.00	Off-delay	1 to 100 minutes	24 VAC/VDC	(1) SPDT timed relay	PDF
T2R-FD-33J-120A	\$45.00	Off-delay	1 to 100 minutes	120 VAC/VDC	(1) SPDT timed relay	PDF

Off-Delay Relay Timers Specifications					
Models	T2R-FD-3x-24AD	T2R-FD-3xJ-120A			
Input Specifications					
Nominal Voltage	24VAC/VDC	120VAC/VDC			
Nominal Consumption	Maximum 2VA				
Nominal Frequency	50/60 Hz				
Voltage Tolerance	AC operation: +10/-15% of nominal at 50/60 Hz DC operation: +10/-15% of nominal				
Contact Specifications					
Туре	(1) SPDT				
Switching Capacity	10A @ 240VAC, 30VDC 7A @ 28VDC SPDT 1/4 HP @ 120VAC (N.O.)				
Electrical Lifetime	Full load: 100,000 operations				
Mechanical Lifetime	10,000,000	10,000,000 operations			
Reset Time					
Triggered with Input Voltage	0.1 seconds				
Functions Triggered with Control Switch	0.04 seconds				
Time Circuit Specifications					
Setting Accuracy	Maximum setting (adjustable): +5%, -0% Minimum setting (adjustable): +0%, -50% Fixed time delay: ±2% or 50ms, whichever is greater				
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				
Repeat Accuracy		erature within specifications: nds, whichever is greater			

Off-Delay Relay Timers Specifications General Specifications Connection 0.25 inch male quick-connect terminals Ambient -28 to +65°C Temperature [-18 to +149°F] -40 to +85°C Storage Temperature [-40 to +185°F] Protection Rating IP00 Surface with one #8 or #10 screw and a Mounting maximum tightening torque of 15 in•lb. Mounting Any Orientation Weight 0.15 lb Agency Approvals cURus File E191059, CE and Standards *

*To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

Wiring Diagram



PrSense[®] Relay Timers

Timing Charts

T2L Series (-4X Suffix)

Function	Series	Operation		Timing Chart
ON DELAY Delay on Operate	T2L (-4x Suffix)	Upon application of input voltage, the time delay (t) begins. At the end of the time delay (t), the output is energized. Input voltage must be removed to reset the time delay relay & de-energize the output.	INPUT VOLTAGE OUTPUT	t t

Note: Please see inserts for more information

T2L, T2R, & T2S Series

Function	Product Series	Operation	Timing Chart
ON DELAY Delay on Operate	T2L-ND T2R-ND T2S-ND	Upon application of input voltage, the time delay (t) begins. At the end of the time delay (t), the output is energized. Input voltage must be removed to reset the time delay relay & de-energize the output.	INPUT VOLTAGE t OUTPUT t
INTERVAL ON Interval	T2S-TT	Upon application of input voltage, the output is energized and the time delay (t) begins. At the end of the time delay (t), the output is de-energized. Input voltage must be removed to reset the time delay relay.	INPUT VOLTAGE OUTPUT t t
SINGLE SHOT One Shot Momentary Interval	T2R-SST T2S-SST	Upon application of input voltage, the time delay relay is ready to accept a trigger. When the trigger is applied, the output is energized and the time delay (t) begins. During the time delay (t), the trigger is ignored. At the end of the time delay (t), the output is de-energized and the time delay is ready to accept another trigger.	INPUT VOLTAGE TRIGGER OUTPUT t t
OFF DELAY Delay on Release Delay on Break Delay on De-Energization	T2R-FD T2S-FD	Upon application of input voltage, the time delay relay is ready to accept a trigger. When the trigger is applied, the output is energized. Upon removal of the trigger, the time delay (t) begins. At the end of the time delay (t), the output is de-energized. Any applica- tion of the trigger during the time delay will reset the time delay (t) and the output remains energized.	INPUT VOLTAGE TRIGGER OUTPUT t <t t<="" td=""></t>

Note: Please see inserts for more information