

prosense® Relay Timers

Multi-Mode Relay Timers T2R-M Series

Overview

The T2R-M series come with four functions and four timing ranges covering 0.1 seconds to 100 minutes (1,000 minutes on T2R-M3-ADJ-240U dual time unit). On the unit, choose between onboard adjustable, onboard fixed and remote adjustable time delay settings (remote time delay not available on T2R-M3-ADJ-240U). All set-up is done with DIP switches for ease of use. A universal input voltage of 24-240VAC and 12-125VDC adds to the ultimate flexibility of these products. All products are encapsulated for protection against harsh elements. A 10A SPDT relay output rating can handle most pilot duty and fractional HP loads.

Features

- Four timing functions in one unit easily selectable with rotary switch
- Timing ranges built-in covering 0.1 seconds to 100 minutes (T2R-M3-ADJ-240U goes up to 1000 minutes)
- Universal Voltage: 24-240 VAC and 12-125 VDC
- 10A SPDT output contact



T2R-M1-ADJ-240U



T2R-M3-ADJ-240U

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Part Number	Price	Timer Type	Timing Range	Voltage	Output Type	Drawing Link
<u>T2R-M1-ADJ-240U</u>	\$41.50	Multi-mode	0.1 seconds to 100 minutes selectable	24-240 VAC and 12-125 VDC	(1) SPDT timed relay	<u>PDF</u>
<u>T2R-M2-ADJ-240U</u>	\$41.50	Multi-mode	0.1 seconds to 100 minutes selectable	24-240 VAC and 12-125 VDC	(1) SPDT timed relay	<u>PDF</u>
<u>T2R-M3-ADJ-240U</u>	\$43.50	Multi-mode	0.1 seconds to 1,000 minutes selectable	24-240 VAC and 12-125 VDC	(1) SPDT timed relay	<u>PDF</u>

Multi-Mode Relay Timers Specifications

Input Specifications	
Nominal Voltage	20.4 - 264VAC @ 50/60Hz, 10.2 - 137.5 VDC
Nominal Consumption	Max 2VA
Contact Specifications	
Type	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 operations
Reset Time	
Functions 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%
Start-up Time	Time from when power is applied until unit is timing: 50ms
Maintain Function Time	Time unit continues to operate after power is removed: 0.01 seconds
Repeat Accuracy	Constant voltage & temperature within specifications: ±0.1% or ± 0.04 seconds whichever is greater

Multi-Mode Relay Timers Specifications

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

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

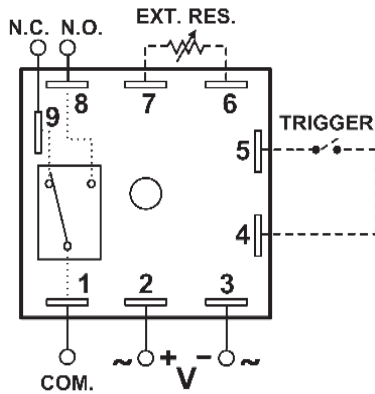
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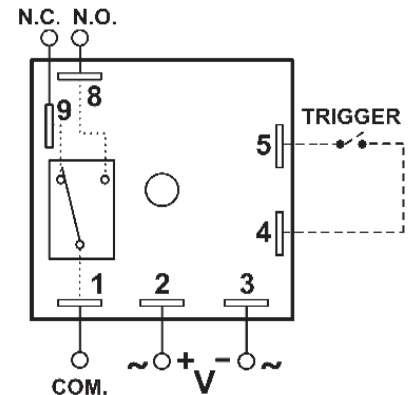
Wiring Diagrams

T2R-M1-ADJ-240U

T2R-M2-ADJ-240U



T2R-M3-ADJ-240U



Functions

T2R-M1-ADJ-240U

Function Table	
Select Function	
1	On-delay
2	Off-delay
3	Interval
4	Single-shot

T2R-M2-ADJ-240U

Function Table	
Select Function	
1	Flasher OFF
2	Flasher ON
3	Watchdog
4	Single-shot falling edge

T2R-M3-ADJ-240U

Function Table	
Select Function	
1	Repeat cycle OFF
2	Repeat cycle ON
3	Delayed interval
4	Delayed interval (triggered)

Timing Ranges

Timing Ranges			
Part Number	Time Range (t) Options	Switches	
		C	D
<u>T2R-M1-ADJ-240U</u>	0.1 - 10s	ON	ON
	1-100s	OFF	ON
	10-1000s	ON	OFF
	1-100m	OFF	OFF
<u>T2R-M2-ADJ-240U</u>	0.1 - 10s	ON	ON
	1-100s	OFF	ON
	10-1000s	ON	OFF
	1-100m	OFF	OFF

Timing Ranges						
Part Number	Time Range (t1) Options	Switches		Time Range (t2) Options	Switches	
		C	D		E	F
<u>T2R-M3-ADJ-240U</u>	0.1 - 10s	ON	ON	0.1 - 10s	ON	ON
	1-100s	OFF	ON	1-100s	OFF	ON
	1-100m	ON	OFF	1-100m	ON	OFF
	10-1000m	OFF	OFF	10-1000m	OFF	OFF

Timing Charts

T2R-M1-ADJ-240U

* Requires Trigger

T2R-M2-ADJ-240U

* Requires Trigger

T2R-M3-ADJ-240U

* Requires Trigger