

prosense® Relay Timers

Fleeting (single-shot) Relay Timers T30R-SST Series

Overview

The T30R-SST series offers a single-shot timing function in a cost-effective design and compact size. Units in the T30R-SST series are an ideal choice for many industrial applications, using a microprocessor-based design for reliable performance and maximum flexibility. The 30A 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

- 30A SPDT relay output contacts can control loads without a separate contactor
- Cost effective design and compact 2x3 inch enclosure
- Microprocessor-based for superior accuracy and repeatability
- Encapsulated for resistance to harsh environments
- Isolated control switch and isolated relay common
- Made in USA



T30R-SST-30-120A



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| Part Number | Price | Timer Type | Timing Range | Voltage | Output Type | Drawing Link |
|----------------------------------|---------|------------------------|-------------------|-------------|-------------|---------------------|
| T30R-SST-30-120A | \$60at: | Fleeting (single-shot) | 0.1 to 10 seconds | 120 VAC/VDC | SPDT | PDF |
| T30R-SST-30-24AD | \$60a7: | Fleeting (single-shot) | 0.1 to 10 seconds | 24 VAC/VDC | SPDT | PDF |
| T30R-SST-31-120A | \$60au: | Fleeting (single-shot) | 1 to 100 seconds | 120 VAC/VDC | SPDT | PDF |
| T30R-SST-31-24AD | \$60a8: | Fleeting (single-shot) | 1 to 100 seconds | 24 VAC/VDC | SPDT | PDF |
| T30R-SST-32-120A | \$60av: | Fleeting (single-shot) | 0.1 to 10 minutes | 120 VAC/VDC | SPDT | PDF |
| T30R-SST-32-24AD | \$60a9: | Fleeting (single-shot) | 0.1 to 10 minutes | 24 VAC/VDC | SPDT | PDF |
| T30R-SST-33-120A | \$60ax: | Fleeting (single-shot) | 1 to 100 minutes | 120 VAC/VDC | SPDT | PDF |
| T30R-SST-33-24AD | \$60aa: | Fleeting (single-shot) | 1 to 100 minutes | 24 VAC/VDC | SPDT | PDF |
| T30R-SST-34-120A | \$60ay: | Fleeting (single-shot) | 0.1 to 10 hours | 120 VAC/VDC | SPDT | PDF |
| T30R-SST-34-24AD | \$60ab: | Fleeting (single-shot) | 0.1 to 10 hours | 24 VAC/VDC | SPDT | PDF |

Fleeting (single-shot) Relay Timers Specifications

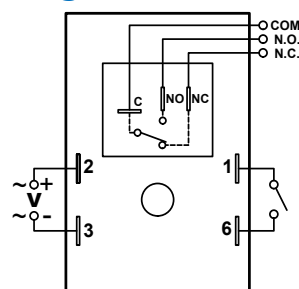
| Models | T30R-SST-3x-24AD | T30R-SST-3x-120A |
|-------------------------------------|--|------------------|
| Input Specifications | | |
| Nominal Voltage | 24 VAC/VDC | 120 VAC/VDC |
| Nominal Consumption | Maximum 3VA | |
| Nominal Frequency | 50/60 Hz | |
| Voltage Tolerance | AC operation: +10/-15% of nominal at 50/60 Hz DC operation: +10/-15% of nominal | |
| Contact Specifications | | |
| Type | (1) SPDT | |
| Output Contact Ratings | 240VAC - 30A (N.O.), 15A (N.C.) 28VDC - 20A (N.O.), 10A (N.C.) Motor Load - 115/120/125: 1HP (N.O.), 1/4HP (N.C.) Motor Load - 230/240/250: 2HP (N.O.), 1/2 HP (N.C.) | |
| Electrical Lifetime | Full load: 100,000 operations | |
| Mechanical Lifetime | 10,000,000 operations | |
| Reset Time | | |
| Triggered With Input Voltage | 100ms | |
| Units Triggered With Control Switch | Minimum required trigger switch closure time is 50ms | |
| 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: 0.05 seconds | |
| Maintain Function Time | Time unit continues to operate after power is removed: 0.01 seconds | |
| Repeat Accuracy | Constant voltage and temperature within specifications: ±0.1% or ± 0.04 seconds, whichever is greater | |

Fleeting (single-shot) Relay Timers Specifications

| | |
|----------------------------------|---|
| General Specifications | |
| Connection | 0.25 inch male quick-connect terminals |
| Operating 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 | All directions |
| 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.

Wiring Diagram



Timing Charts

T30R Series

| Function | Product Series | Operation | Timing Chart |
|--|----------------|--|--------------|
| ON DELAY Delay on Operate | T30R-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. | |
| OFF DELAY Delay on Release Delay on Break Delay on De-Energization | T30R-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 application of the trigger during the time delay will reset the time delay (t) and the output remains energized. | |
| SINGLE SHOT One Shot Momentary Interval | T30R-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 relay is ready to accept another trigger. | |
| REPEAT CYCLE OFF First | T30R-RC | Upon application of input voltage, the time delay (t1) begins. At the end of the time delay (t1), the output is energized and remains in that condition for the time delay (t2). At the end of this time delay, the output is de-energized and the sequence repeats until input voltage is removed. | |