

# Electronic Timing Relays

Type JCK Class 9050

Catalog  
**2013**



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## Timing Functions

| Class 9050 Type  |                         | JCK1•/<br>JCK60 | JCK2• | JCK3• | JCK4• | JCK5• | JCK70 |
|------------------|-------------------------|-----------------|-------|-------|-------|-------|-------|
| Timing Functions | On Delay                |                 |       |       |       |       |       |
|                  | Off Delay               |                 |       |       |       |       |       |
|                  | Off Delay Power Trigger |                 |       |       |       |       |       |
|                  | Interval                |                 |       |       |       |       |       |
|                  | One Shot                |                 |       |       |       |       |       |
|                  | One Shot Power Trigger  |                 |       |       |       |       |       |
|                  | Repeat Cycle–Off        |                 |       |       |       |       |       |
|                  | Repeat Cycle–On         |                 |       |       |       |       |       |
|                  | On/Off Delay            |                 |       |       |       |       |       |
|                  | One Shot Falling Edge   |                 |       |       |       |       |       |
|                  | Watchdog                |                 |       |       |       |       |       |
|                  | Trigger On Delay        |                 |       |       |       |       |       |
| Number of Pins   |                         | 8               | 11    | 8     | 11    | 8     | 11    |

## 9050JCK Electronic Timing Functions

| Function                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Timing Diagram |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| On Delay                           | When the input voltage is applied, the time delay begins. Relay contacts change state after time delay is complete. When the input voltage is removed, contacts return to their shelf state. The trigger switch is not used in this function.                                                                                                                                                                                                                                                                                  |                |
| Interval                           | When the input voltage is applied, the relay contacts change state immediately and the timing cycle begins. When the time delay is complete, or when the input voltage is removed, contacts return to shelf state. The trigger switch is not used in this function.                                                                                                                                                                                                                                                            |                |
| Off Delay Switch and Power Trigger | Input voltage must be applied continuously. When the trigger switch closes, the relay contacts change state. When the trigger switch opens, the time delay begins. When the delay is complete, the contacts return to their shelf state. If the trigger switch closes before the time delay is complete, then timing is reset. When the trigger switch opens, the delay begins again, and the relay contacts remain in their energized state. If the input voltage is removed, the relay contacts return to their shelf state. |                |
| One Shot Switch and Power Trigger  | Input voltage must be applied continuously. When the trigger switch closes, the relay contacts change state and the pre-set delay begins. During time-out, the trigger signal is ignored. If the input voltage is removed, the relay contacts return to their shelf state.                                                                                                                                                                                                                                                     |                |

## 9050JCK Electronic Timing Functions

| Function              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Timing Diagram |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Repeat Cycle-Off      | When input voltage is applied, the time delay T1 begins. When time delay T1 is complete, the relay contacts change state for time delay T2. This cycle repeats until the input voltage is removed. The trigger switch is not used in this function. Two dials are provided for independently adjustable repeat cycle timing ranges. For JCK70 timing relay, T1 equals T2.                                                                                                                                                                                                                                                                                                                                                                                                |                |
| Repeat Cycle-On       | When input voltage is applied, the relay contacts change state immediately and time delay T1 begins. When time delay T1 is complete, the contacts return to their shelf state for time delay T1. This cycle repeats until the input voltage is removed. The trigger switch is not used in this function.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |
| On/Off Delay          | Upon application of input voltage, the time delay relay is ready to accept trigger signals. When the trigger switch closes, a pre-set On delay begins. At the end of the On delay, the relay contacts change state. When the trigger switch opens, the relay contacts remain in the current state until the pre-set Off delay elapses. At the end of the Off delay, the relay contacts return to their shelf state. The cycle can be repeated by re-closing the trigger switch after the timing cycle ends. If the trigger switch opens before the On delay elapses, the relay remains in its shelf state, and the delay timer resets. If the trigger switch re-closes before the Off delay elapses, the relay remains in its changed state, and the delay timer resets. |                |
| One Shot Falling Edge | Upon application of input voltage, the time delay relay is ready to accept trigger signals. When the trigger switch closes, the relay remains in its shelf state. When the trigger switch opens, the relay contacts change state and a pre-set time delay begins. At the end of the time delay, the relay contacts return to their shelf state unless the trigger switch closes and opens before the time delay elapses. Continuous cycling of the trigger signal at a rate faster than the time delay causes the relay to remain in its changed state.                                                                                                                                                                                                                  |                |
| Watchdog              | Upon application of input voltage, the time delay relay is ready to accept trigger signals. When the trigger switch closes, the relay contacts change state and the pre-set time delay begins. At the end of the time delay, the relay contacts return to their shelf state unless the trigger switch closes and opens before the time delay elapses. Continuous cycling of the trigger signal at a rate faster than the delay time causes the relay to remain in its changed state                                                                                                                                                                                                                                                                                      |                |
| Trigger On Delay      | Upon application of input voltage, the time delay relay is ready to accept trigger signals. When the trigger switch closes, a pre-set time delay begins. At the end of the pre-set time delay, the relay contacts change state and remain in that position as long as either the trigger signal is maintained or the input voltage remains. If the trigger switch opens during the time delay, the relay contacts return to their shelf state.                                                                                                                                                                                                                                                                                                                           |                |

# Type JCK Electronic Timing Relays

## Type JCK11 – JCK59







File E78351  
CCN NLDX2  
(without  
socket)

File 78351  
CCN NLDX  
(with the  
proper  
socket from  
page 10)

File 214768  
Class 3211 07

### Features:

- Up to  $\pm 0.1\%$  repeat accuracy
- Timing from 0.1 seconds to 120 minutes
- Available in 7 different timing functions
- DPDT contacts (2 N.O. & 2 N.C.)
- 10 A contact rating
- Transient protected
- Hold-down spring available
- Variable or fixed time delay
- Horsepower rated



9050JCK11V20



9050JCK1F15V14



9050JCK11V14

### Variable Time Delay

Specify the voltage code when ordering this product. Refer to the standard voltage codes listed below and insert the code as shown in "How To Order" below.

| Knob Adjustable<br>Timing Range | Functions |           |                            |          |          |                           |              |
|---------------------------------|-----------|-----------|----------------------------|----------|----------|---------------------------|--------------|
|                                 | On Delay  | Off Delay | Off Delay<br>Power Trigger | Interval | One Shot | One Shot<br>Power Trigger | Repeat Cycle |
| 0.1–10 seconds                  | JCK11     | JCK21     | JCK21PT                    | JCK31    | JCK41    | JCK41PT                   | JCK51        |
| 0.3–30 seconds                  | JCK12     | JCK22     | JCK22PT                    | JCK32    | JCK42    | JCK42PT                   | JCK52        |
| 0.6–60 seconds                  | JCK13     | JCK23     | JCK23PT                    | JCK33    | JCK43    | JCK43PT                   | JCK53        |
| 1.2–120 seconds                 | JCK14     | JCK24     | JCK24PT                    | JCK34    | JCK44    | JCK44PT                   | JCK54        |
| 1.8–180 seconds                 | JCK15     | JCK25     | JCK25PT                    | JCK35    | JCK45    | JCK45PT                   | JCK55        |
| 0.1–10 minutes                  | JCK16     | JCK26     | JCK26PT                    | JCK36    | JCK46    | JCK46PT                   | JCK56        |
| 0.3–30 minutes                  | JCK17     | JCK27     | JCK27PT                    | JCK37    | JCK47    | JCK47PT                   | JCK57        |
| 0.6–60 minutes                  | JCK18     | JCK28     | JCK28PT                    | JCK38    | JCK48    | JCK48PT                   | JCK58        |
| 1.2–120 minutes                 | JCK19     | JCK29     | JCK29PT                    | JCK39    | JCK49    | JCK49PT                   | JCK59        |

### Fixed Time Delay

Specify the voltage code when ordering this product. Refer to the standard voltage codes listed below and insert the code as shown in "How To Order" below.

| Timing Function                            | Type (1)                           | Timing Range (seconds) |
|--------------------------------------------|------------------------------------|------------------------|
| On Delay                                   | JCK1F(XXXX)                        | 0.1 to 7200            |
| Off Delay                                  | JCK2F(XXXX)                        | 0.1 to 7200            |
| On/Off Delay with Power Trigger            | JCK2F(XXXX)PT                      | 0.1 to 7200            |
| Interval                                   | JCK3F(XXXX)                        | 0.1 to 7200            |
| One Shot                                   | JCK4F(XXXX)                        | 0.1 to 7200            |
| One Shot with Power Trigger (Falling Edge) | JCK4F(XXXX)PT                      | 0.1 to 7200            |
| Repeat Cycle                               | JCK5F(XXXX) JCK5F(XXXX)F(XXXX) (2) | 0.1 to 7200            |

(1) (XXXX) denotes desired timing period in seconds. Example: Class 9050 Type JCK1F60 is an On Delay timer fixed at 60 seconds.

(2) Fixed repeat cycle timers are available with the same On and Off Times (for example., 9050JCK5F130V20) or different On and Off Times (for example, 9050JCK5F130F35V20). Specify the suffix for the Off Time (F130), then the suffix for the On Time (F35).

### Voltage Codes

| Voltage             | Code |
|---------------------|------|
| 12 Vdc              | V36  |
| 24 Vac / Vdc        | V14  |
| 48 Vac / Vdc        | V17  |
| 120 Vac / 110 Vdc   | V20  |
| 240 Vac, 50 / 60 Hz | V24  |

### How to Order Type JCK Timers

| To Order, Specify:                          | Catalog Number Example |       |              |
|---------------------------------------------|------------------------|-------|--------------|
|                                             | Class                  | Type  | Voltage Code |
| Class Number<br>Type Number<br>Voltage Code | 9050                   | JCK11 | V20          |

# Type JCK Electronic Timing Relays

## Type JCK60 – JCK70

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |  |  |
| File E78351<br>CCN NLDX2<br>(without<br>socket)                                   | File 78351<br>CCN NLDX<br>(with the<br>proper<br>socket from<br>page 10)          | File 214768<br>Class 3211 07                                                      |                                                                                   |                                                                                   |

### Features:

- Up to  $\pm 0.1\%$  repeat accuracy
- Timing from 0.05 seconds to 999 hours
- Available in up to 10 timing functions
- DPDT contacts (2 N.O. & 2 N.C.)
- 10 A contact rating
- Transient protected
- Hold-down spring available
- Wide timing range
- Horsepower rated

## Programmable Timers

Class 9050 Type JCK programmable timers are microprocessor controlled to provide flexibility with accurate timing. The Type JCK60 On Delay timer has seven programmable timing ranges. The Type JCK70 multifunction timer has 10 timing functions and seven programmable timing ranges. To program the timers, remove power and select the timing range and timing functions. Settings of less than 0.05 seconds are not recommended due to the response time of the electromechanical outputs.

### Type JCK60 (On Delay)

This On Delay timer uses a push-button thumbwheel to select the timing range, and uses three push-button thumbwheels to select the time value.

|                                                                                    | Timing Function | Timing Ranges                                                                                                                                               | Type      |
|------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|  | On Delay        | 0.01 s 0.05–9.99 seconds<br>0.1 s 0.1–99.9 seconds<br>S 1–999 seconds<br>0.1 m 0.1–99.9 minutes<br>M 1–999 minutes<br>0.1 h 0.1–99.9 hours<br>H 1–999 hours | JCK60 (1) |

(1) The voltage code must be specified to order this product. Refer to standard voltage codes listed below and insert the code as shown in "How To Order" below.

### Type JCK70 (Multifunction)

One 10-position push button thumbwheel is used to select the function. Three 10-position push button thumbwheels are used to select the time value. One 7-position push button thumbwheel is used to select the timing range.

|                                                                                     | Timing Functions                                                                                                                                                  | Timing Ranges                                                                                                                                               | Type      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|  | On Delay<br>Interval<br>Off Delay<br>One Shot<br>Repeat Cycle–Off (1)<br>Repeat Cycle–On (1)<br>On/Off Delay<br>1 Shot Falling Edge<br>Watchdog<br>Trig. On Delay | 0.01 s 0.05–9.99 seconds<br>0.1 s 0.1–99.9 seconds<br>S 1–999 seconds<br>0.1 m 0.1–99.9 minutes<br>M 1–999 minutes<br>0.1 h 0.1–99.9 hours<br>H 1–999 hours | JCK70 (2) |

(1) The Repeat Cycle function uses the same On and Off times.

(2) Specify the voltage code when ordering this product. Refer to the standard voltage codes listed below and insert as shown in How To Order.

**Note:** Turn off power to the 9050JCK70 before changing the timing function.

## Voltage Codes

| Voltage           | Code |
|-------------------|------|
| 12 Vdc            | V36  |
| 24 Vac / Vdc      | V14  |
| 48 Vac / Vdc      | V17  |
| 120 Vac / 110 Vdc | V20  |

## How to Order Type JCK Timers

| To Order, Specify:                          | Catalog Number Example |       |              |
|---------------------------------------------|------------------------|-------|--------------|
|                                             | Class                  | Type  | Voltage Code |
| Class Number<br>Type Number<br>Voltage Code | 9050                   | JCK60 | V24          |

## Operating Specifications

|                                  |                                                                                                             |                                                   |                                                                  |
|----------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------|
| Voltage range                    | AC operation                                                                                                |                                                   | +10%, -15% of nominal @ 50/60 Hz                                 |
|                                  | DC operation                                                                                                |                                                   | +10%, -15% of nominal                                            |
| Repeat accuracy                  | For constant voltage and temperature                                                                        | 9050JCK11-59                                      | ±0.1%, ±0.04 s, whichever is greater                             |
|                                  |                                                                                                             | 9050JCK60-70                                      | ±0.1% of set time or ± 0.02 ms, whichever is greater             |
|                                  | For variable voltage and temperature, within specs                                                          | 9050JCK11-59                                      | ±10%                                                             |
|                                  |                                                                                                             | 9050JCK60-70                                      | ±0.1% of set time or 0.02 s, whichever is greater                |
| Reset time                       | All functions                                                                                               |                                                   | 100 ms                                                           |
| Temperature range                | Operating (with the proper derating, see curve on page 9)                                                   | 12-120 Vac/Vdc                                    | -18 to +150 °F (-28 to +65 °C)                                   |
|                                  |                                                                                                             | 240 Vac                                           | -18 to +122 °F (-28 to +50 °C)                                   |
|                                  | Storage                                                                                                     |                                                   | -67 to +185 °F (-55 to +85 °C)                                   |
| IEC 60664-1                      | Degree of pollution                                                                                         |                                                   | 2                                                                |
|                                  | Overvoltage category                                                                                        |                                                   | III                                                              |
| Contact material                 |                                                                                                             |                                                   | Silver nickel                                                    |
| Mounting position                |                                                                                                             |                                                   | indifferent                                                      |
| Burden                           | 9050JCK11-59, 1, 2-120 Vac/Vdc                                                                              |                                                   | 2.0 VA                                                           |
|                                  | 9050JCK11-59, 240 Vac                                                                                       |                                                   | 3.0 VA                                                           |
|                                  | 9050JCK60-70, 12-120 Vac/Vdc                                                                                |                                                   | 3.0 VA                                                           |
|                                  | 9050JCK60-70, 240 Vac                                                                                       |                                                   | 3.2 VA                                                           |
| Relative humidity                |                                                                                                             |                                                   | 15% to 85%, per IEC 60068-2-3                                    |
| Insulation test voltage          | 9050JCK11-59<br>9050JCK60-70                                                                                | 2,000 Vac                                         |                                                                  |
|                                  |                                                                                                             | 1,500 Vac between coil and contacts               |                                                                  |
|                                  |                                                                                                             | 1,000 Vac between open contacts                   |                                                                  |
|                                  |                                                                                                             | 1,500 Vac between contacts of different circuitry |                                                                  |
| Transient protection             |                                                                                                             |                                                   | 13 J, 10x 1000 µs                                                |
| Vibration                        |                                                                                                             |                                                   | 10-55 Hz, 3 g max., 0.5 mm total displacement (+0.25 mm)         |
| Shock                            |                                                                                                             |                                                   | 30 g, 11 ms duration, half sine wave                             |
| Endurance (1)                    | Mechanical (no load, 18,000 operations/hr max.)                                                             |                                                   | 10 million operations                                            |
|                                  | Electrical (full rated load, 1,800 operations/hr max., operating temperature -18 to 104 °F [-28 to 40 °C]). |                                                   | 100,000 operations                                               |
| Degree of protection (IEC 60529) |                                                                                                             |                                                   | IP20                                                             |
| Max. switching frequency         |                                                                                                             |                                                   | 1800 cycles per hour                                             |
| Compliance                       | UL Component Recognized File                                                                                |                                                   | E78351 CCN NLDX2 (without socket)                                |
|                                  | UL Listed File                                                                                              |                                                   | E78351 CCN NLDX (with the proper socket from page 10)            |
|                                  | CSA                                                                                                         |                                                   | File 214768 Class 3211 07                                        |
|                                  | CE                                                                                                          |                                                   | EN60947-4-1, EN60947-5-1, EN61812-1                              |
|                                  | RoHS                                                                                                        |                                                   | As of Series E for JCK1-59<br>As of Series D for JCK60 and JCK70 |
| Fuse                             |                                                                                                             |                                                   | 10 A, Class CC (e.g., Bussmann KTK-R 10)                         |

(1) The product life expressed on this page is based on average and normal operating conditions. Actual life will vary with conditions. The above statements are not intended to, nor shall they, create any expressed or implied warranties as to product operation or life. For more information on the listed warranty offered on this product, refer to the Terms and Conditions of sale found in the Digest.

## Electromagnetic Compatibility (EMC) Ratings

| Test                                                      | IEC       | Level              |
|-----------------------------------------------------------|-----------|--------------------|
| Electrostatic discharge                                   | 61000-4-2 | 3 (6 kV, 8 kV)     |
| Radiated, radio-frequency, electromagnetic field          | 61000-4-3 | 3 (10 V/m)         |
| Electrical fast transient/burst                           | 61000-4-4 | 3 (2 kV, 1 kV) (1) |
| Surge                                                     | 61000-4-5 | 3 (2 kV, 1 kV) (1) |
| Conducted disturbances, induced by radio-frequency fields | 61000-4-6 | 3 (10 V/m)         |
| Radiated emissions                                        | CISPR 22  |                    |
| Conducted emissions                                       | CISPR 22  |                    |

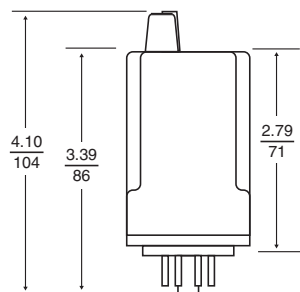
(1) Supply port, output port, and control port

## LED Indicators (1)

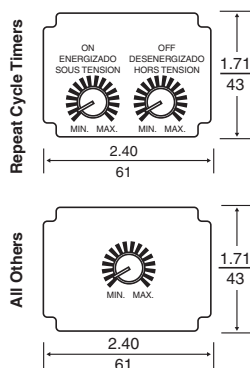
| LED         | State            |
|-------------|------------------|
| Steady (On) | Power present    |
| Flashing    | Device is timing |

(1) The LED is not an indicator of the output state of the timing relay.

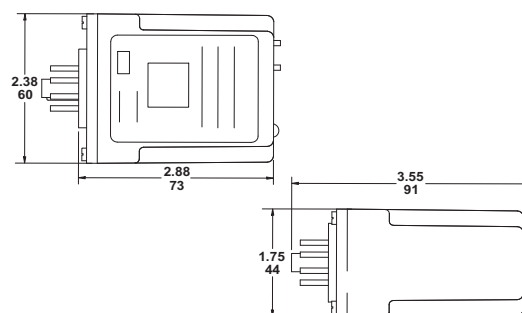
## Dimensions — inches mm



Dimensions of Type JCK11 – JCK59



The knob shown is for variable time versions only.

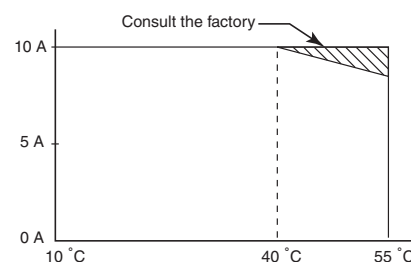


Dimensions of Type JCK60 and JCK70

## AC Maximum Contact Ratings

| AC Voltage |                                                |            | 120 / 240 Vac (N.C.) | 120 / 240 Vac (N.O.) |
|------------|------------------------------------------------|------------|----------------------|----------------------|
| Horsepower |                                                |            | 1/3                  | 1/2                  |
| AC Amperes | Resistive 75% P.F. Make, Break, and Continuous |            | 10                   | 10                   |
|            | Inductive 35% P.F.                             | Continuous | 10                   | 10                   |
|            |                                                | Break      | 3                    | 1.5                  |
|            |                                                | Make       | 30                   | 15                   |

## Contact Derating Curve



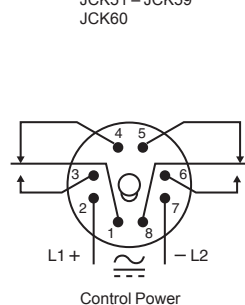
## DC Maximum Contact Ratings

| DC Volts   |                                       |       | 30 |
|------------|---------------------------------------|-------|----|
| DC Amperes | Resistive Make, Break, and Continuous |       | 10 |
|            | Inductive                             | Make  | 3  |
|            |                                       | Break | 3  |

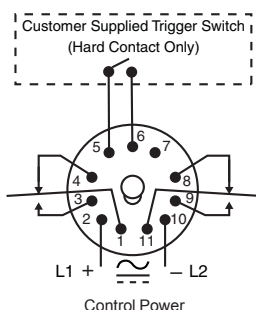
AC15/B300 (NO/NC), DC13/R300 (NO)  
Recommended minimum load current is 100 mA @ 12 Vdc.

## Wiring Diagrams

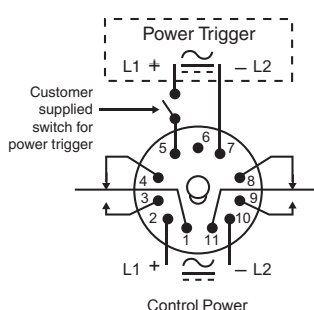
Type (1):  
JCK11 – JCK19  
JCK31 – JCK39  
JCK51 – JCK59  
JCK60



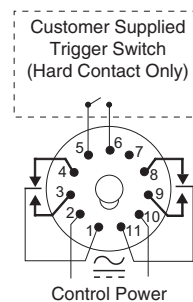
Type (1) (2):  
JCK21 – JCK29  
JCK41 – JCK49



Type (1):  
JCK21PT – JCK29PT  
JCK41PT – JCK49PT



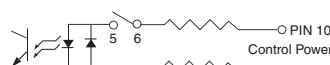
Type (1):  
JCK70



### NOTES:

- Use the same voltage for the power trigger and control power. Do not use terminal 6 with power trigger devices.
- For timers that use trigger switches, the maximum distance for the trigger switch is 50 ft. from the timer.

- (1) Do not apply DC voltage to the 240 Vac timers (voltage code V24).  
(2) There is no internal jumper between pins 6 and 7.





## Conformity to Standards (Sockets Only):



## Input Compatibility

The Type JCK timer is not compatible with 2-wire AC input sensors. A hard contact relay (for instance, a general purpose relay) must be interposed. Class 8501 Type NR sockets are designed for use with plug-in Class 9050 Type JCK timers. All sockets have pressure clamps that accept one or two #12–22 AWG wires. The recommended tightening torque for all terminals is 7–8 lb-in.

- 35 mm DIN 3 track mounting or direct panel mounting
- Tubular sockets available in easy-to-wire single tier or space-saving multi-tier versions
- All sockets are stocked

## Snapmount Sockets-Screw Terminal



8501NR51



8501NR52



8501NR61



8501NR62



8501NH7

| For Use with Class 9050 Type                                         | Description                | Socket Rating |                               | Type         | Order Qty.        |
|----------------------------------------------------------------------|----------------------------|---------------|-------------------------------|--------------|-------------------|
| JCK11–19<br>JCK31–39<br>JCK51–59<br>JCK60<br>JCK1F<br>JCK3F<br>JCK5F | 8-Pin Tubular Single Tier  | UL            | 10 A @ 600 V, 15 A @ 300 V    | 8501NR51     | 1                 |
|                                                                      |                            | CSA           | 10 A @ 300 V                  | 8501NR51B    | 10 (bulk package) |
|                                                                      | 8-Pin Tubular Double Tier  | UL            | 5 A @ 600 V, 16 A @ 300 V     | 8501NR52     | 1                 |
|                                                                      |                            | CSA           | 10 A @ 300 V                  | 8501NR52B    | 10 (bulk package) |
| JCK21–29<br>JCK41–49<br>JCK70<br>JCK2F<br>JCK4F                      | 11-Pin Tubular Single Tier | UL            | 5 A @ 600 V, 15 A @ 300 V     | 8501NR61     | 1                 |
|                                                                      |                            | CSA           | 10 A @ 300 V (20 A max. load) | 8501NR61B    | 10 (bulk package) |
|                                                                      | 11-Pin Tubular Three Tier  | UL            | 5 A @ 600 V, 16 A @ 300 V     | 8501NR62 (1) | 1                 |
|                                                                      |                            | CSA           | 10 A @ 300 V (20 A max. load) | 8501NR62B    | 10 (bulk package) |

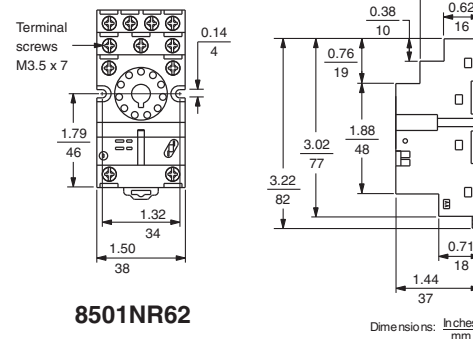
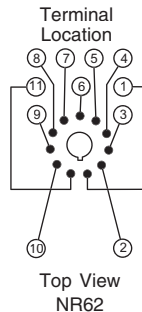
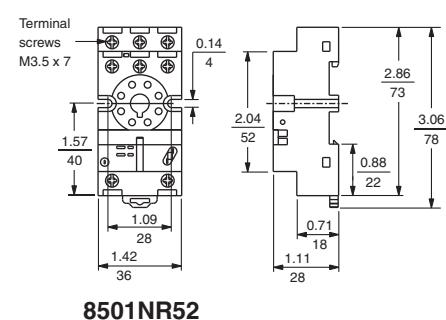
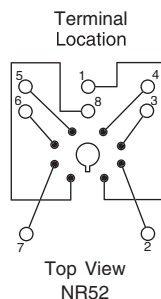
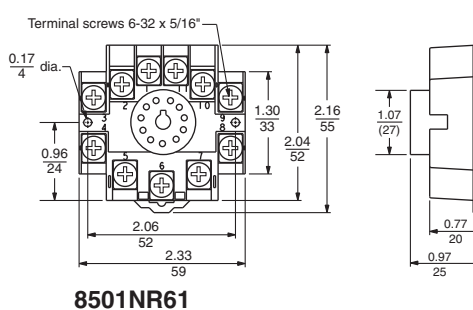
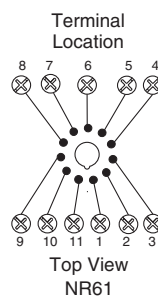
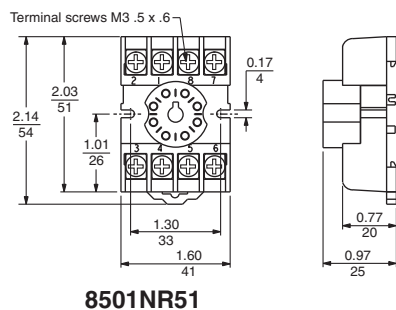
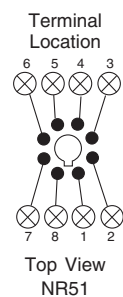
(1) The 8501NR62 socket is approximately the same width as the base of the JCK timer. Use the wider NR61 where space permits for ease of wiring.

## Class 8501 Hold-Down Spring

| For Use on Class 9050 Type JCK Timers                                                                                                                               | Class | Type |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|
| Hold-down spring to hold the timer in its socket during heavy vibration. (See the photo on page 6 of the 9050JCK timer with the 8501NH7 hold-down spring attached.) | 8501  | NH7  |

**Note:** For DIN3 mounting track and end clamps, refer to the IEC type terminal block section in Catalog 9080CT9901.

Socket Dimensions and Wiring Diagrams — inches  
mm



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