



9050JCK46V20

### Square D™ JCK General Purpose Plug-In Timers

Square D 9050JCK timing relays are designed to provide low-cost timing in a plug-in housing. The Types JCK11 through 59 provide ±1% repeat accuracy. The Types JCK60 and 70 offer ±0.1% repeat accuracy. These timers are directly interchangeable with many other 8 and 11 pin octal base timers.

- Up to ±0.1% repeat accuracy
- Timing from 0.05 seconds to 999 hours
- Available in 7 timing modes
- DPDT contacts (2 N.O. and 2 N.C.)
- 10 A contact rating
- Transient protected
- Hold down spring available
- Variable or fixed time delay
- Horsepower rated
- RoHS compliant

Table 23.129: Variable Time Delay

Knob Adjustable Timing Range	On Delay <sup>[1]</sup>	Off Delay <sup>[2]</sup> <sup>[1]</sup>	Off Delay Power Trigger <sup>[1]</sup>	Interval <sup>[1]</sup>	One Shot <sup>[2]</sup> <sup>[1]</sup>	One Shot Power Trigger <sup>[1]</sup>	Repeat Cycle <sup>[3]</sup> <sup>[1]</sup>
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

Table 23.130: Fixed Time Delay

Timing Mode	Type <sup>[1]</sup> <sup>[4]</sup> <sup>[5]</sup>	Timing Range (seconds)
On Delay	JCK1F(XXXX)	0.1 to 180
		181 to 3600
Off Delay <sup>[2]</sup>	JCK2F(XXXX)	0.1 to 180
		181 to 3600
Off Delay with Power Trigger	JCK2F(XXXX)PT	0.1 to 180
		181 to 3600
Interval	JCK3F(XXXX)	0.1 to 180
		181 to 3600
One Shot <sup>[2]</sup>	JCK4F(XXXX)	0.1 to 180
		181 to 3600
One Shot with Power Trigger	JCK4F(XXXX)PT	0.1 to 180
		181 to 3600
Repeat Cycle	JCK5F(XXXX)	0.1 to 180
		181 to 3600

Table 23.131: Voltage Codes

Voltage	Code
12 Vdc	V36
24 Vac/Vdc	V14
48 Vac/Vdc	V17
120 Vac/110 Vdc	V20
240–50/60 Vac	V24

Table 23.132: How to Order

To Order Specify:	Catalog Number		
	Class	Type	Voltage Code
<ul style="list-style-type: none"> <li>• Class Number</li> <li>• Type Number</li> <li>• Voltage Code</li> </ul>	9050	JCK11	V20

[1] Voltage code must be specified to order this product. Refer to the standard voltage codes listed in Table 23.131 and insert as shown in Table 23.132.

[2] Initiating contact can be up to 50 feet from the timer.

[3] Two dials are provided for independently adjustable repeat cycle timing ranges.

[4] (XXXX) denotes the timing period in seconds.

Example: Class 9050 Type JCK1F60 is an On Delay timer fixed at 60 seconds.

[5] Fixed repeat cycle timers can be supplied with the same or different On-Time and Off-Time.

**Type JCK60 and JCK70 Timers**

**NOTE:** Type JCK60 and JCK70 Timers are rated for AC supply voltage only. They are not rated for DC coil.

**Type JCK60**

This On-Delay timer uses four push button thumbwheels to set the time delay. One switch is used for the range. The remaining three are used for the time setting.



9050JCK60V14

**Table 23.133: Selection**

Timing Modes	Timing Ranges		Type
On Delay	0.01s	0.05–9.99 seconds	JCK60 <sup>[6]</sup>
	0.1s	00.1–99.9 seconds	
	S	001–999 seconds	
	0.1m	00.1–99.9 minutes	
	M	001–999 minutes	
	0.1h	00.1–99.9 hours	
H	001–999 hours		

**Type JCK70**

This multifunction multirange time delay relay uses five push button thumbwheel switches. Three switches are used for the time delay, one switch is used for the timing range, and the other switch is used to select the timing mode.



9050JCK70V14

**Table 23.134: Selection**

Timing Modes	Timing Ranges	Type
On Delay Interval Off Delay One Shot Repeat Cycle-Off <sup>[7]</sup> Repeat Cycle-On On/Off Delay 1 Shot Falling Edge Watchdog Trigger On Delay	Same as JCK60	JCK70 <sup>[6]</sup>

**Table 23.135: Sockets**

Contact Terminal Arrangement	Connection	For Use with Relays	Sold in Lots of	Catalog Number <sup>[8]</sup>
Mixed <sup>[9]</sup>	Screw Connector	JCK11–19 JCK31–39 JCK51–59 JCK60 JCK1 F JCK3 F JCK5 F	1	8501NR51
		JCK21–29 JCK41–49 JCK70 JCK2F JCK4F	10	8501NR51B
		JCK21–29 JCK41–49 JCK70 JCK2F JCK4F	1	8501NR61
		JCK21–29 JCK41–49 JCK70 JCK2F JCK4F	10	8501NR61B
Separate <sup>[10]</sup>	Screw Connector	JCK11–19 JCK31–39 JCK51–59 JCK60 JCK1 F JCK3 F JCK5 F	1	8501NR52
		JCK21–29 JCK41–49 JCK70 JCK2F JCK4F	10	8501NR52B
		JCK21–29 JCK41–49 JCK70 JCK2F JCK4F	1	8501NR62
		JCK21–29 JCK41–49 JCK70 JCK2F JCK4F	10	8501NR62B



8501NR61



8501NR52

**Table 23.136: Accessories (sold in lots of 10)**

Description	For Use With	Sold in Lots of	Catalog Number
Metal Restraining Strap	8501NR51 sockets	1	8501NH7
	8501NR52 sockets		
	8501NR61 sockets		
	8501NR62 sockets		

**Approvals for 9050JCK Timers**



File: E3190  
CCN: NLDX2



File: E3190  
CCN:  
NLDX,  
NLDX7<sup>[11]</sup>



File:  
260367  
Class:  
3211 07



RoHS  
Compliant



8501NH7

[6] Voltage code must be specified to order this product. Refer to the standard voltage codes listed in Table 23.131 and insert as shown in Table 23.132.  
 [7] The repeat cycle mode uses the same on-time and off-time.  
 [8] Please note that the B suffix only designates quantities of 10 and is not printed on the socket.  
 [9] The inputs and outputs are mixed on both sides.  
 [10] The inputs and outputs are on separate sides.  
 [11] When used with the appropriate 8501NR socket.