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## FEATURES

- Fully Solid State And Encapsulated
- Delays From 1 to 180 Seconds
- Different ON and OFF Delays Can Be Specified
- Low Cost Mounting And Termination
- Control of Dual Functions in HVAC Equipment
- Small Size
- UL/cUL Recognized

## SPECIFICATIONS

### 1. Time Delay.

- 1.1 Type: Factory fixed
- 1.2 Range: From 1 to 180 seconds in 1 second increments
- 1.3 Repeat accuracy:  $\pm 5\%$  under fixed conditions
- 1.4 Calibration accuracy:  $\pm 20\%$
- 1.5 Recycle time vs. off delay:

Recycle Time	% OFF Delay
1 second	50%
1 minute	70%
5 minutes	90%

Note: Recycle time is the period the initiate switch remains closed after the end of the delay on cycle.

### 2. Input.

- 2.1 Operating voltage: 24, 120 & 230 VAC
- 2.2 Tolerance:  $\pm 15\%$  of nominal
- 2.3 Frequency: 50 - 60 Hertz

### 3. Output.

- 3.1 Type: Solid state
- 3.2 Form: SPST
- 3.3 Rating: 0.7 amperes, steady state, 5 amperes inrush
- 3.4 Voltage drop: 1.2 volts typical
- 3.5 Life: 100,000,000 operations minimum under full load

### 4. Protection.

- 4.1 Transient:  $\pm 1500$  volts for 150 microseconds
- 4.2 Dielectric breakdown: 1500 volts RMS minimum

### 5. Mechanical.

- 5.1 Mounting: One #8 or #10 screw
- 5.2 Termination: 1/4" quick connect terminals
- 5.3 Style: Surface mount / encapsulated

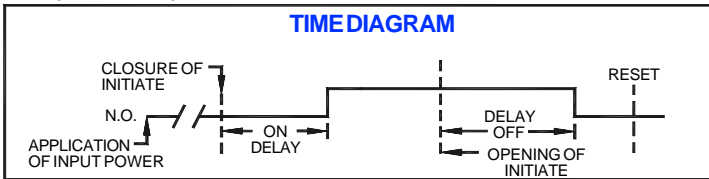
### 6. Environmental.

- 6.1 Operating temperature:  $-20^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- 6.2 Storage temperature:  $-30^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- 6.3 Humidity: 95% relative, non-condensing

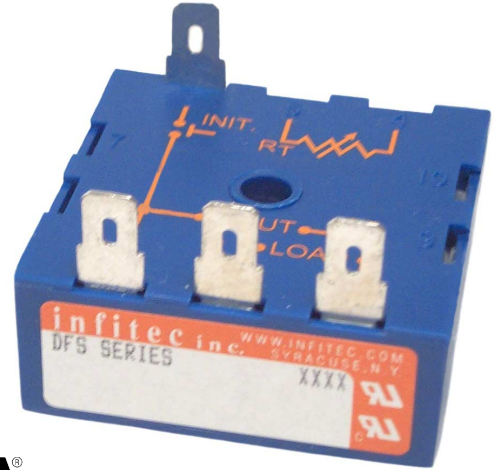
## MODE OF OPERATION

### ON DELAY/OFF DELAY

Voltage is applied to the input terminals at all times. Closure of the initiate switch begins the delay ON. At the end of the delay ON, the load energizes and remains in that state if no further action occurs. Opening of the initiate switch begins the delay OFF. Upon completion of the delay OFF, the load de-energizes. Removal of input voltage during the timing resets the DFS to its initial state.



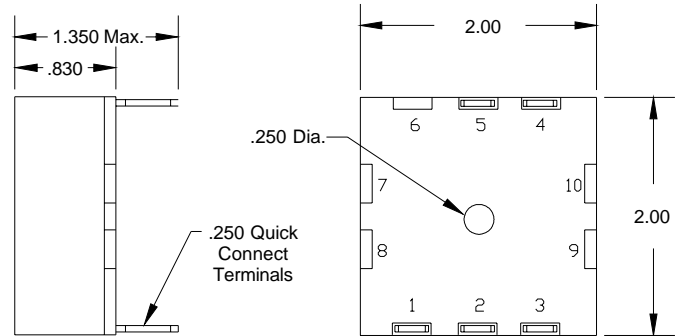
# DFS SERIES ENCAPSULATED ON DELAY/OFF DELAY



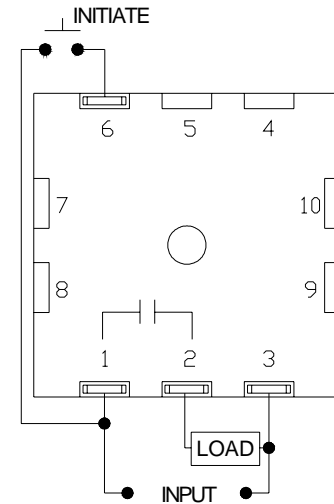
**UL**  
UL/cUL Recognized

File E80165  
UL Guide NKCR2  
cUL Guide NKCR8

## DIMENSIONS



## CONNECTION DIAGRAM



## ORDERING INFORMATION

SERIES	INPUT VOLTAGE	DELAY ON	DELAY OFF
DFS	4 - 24 VAC 5 - 120 VAC 6 - 230 VAC	Specify time in seconds from 1 to 180 followed by the letter "S"	Specify time in seconds from 1 to 180