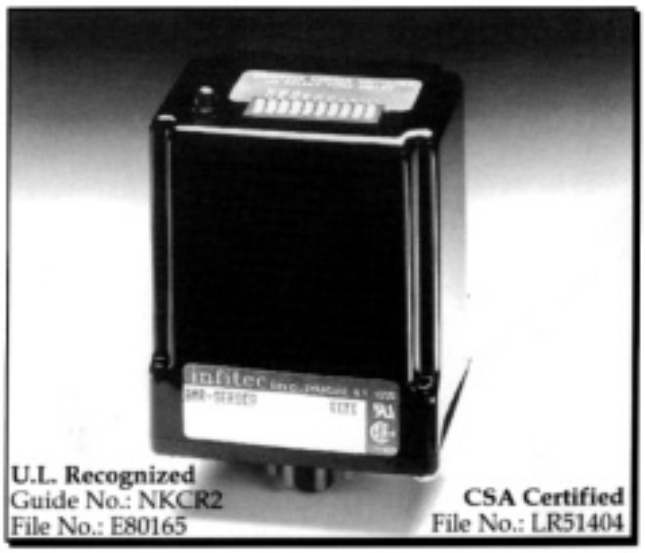
B SERIES
BINARY DIGITAL PLUG-IN TIME DELAY RELAY

FEATURES

- C/MOS Digital Circuitry
- Delays, Switch Selectable In Three Setting Ranges
- 1% Setting Accuracy
- .1% Repeat Accuracy
- Four Modes Of Operation
- No First Cycle Effect
- Wide Voltage Selection 24-230 VAC, 12-110 VDC
- 10 Ampere DPDT Output Rating
- LED Timing Indication
- Octal, 11 Pin, Stab/Square Base Plug-In Termination
- Rocker Type Time Delay Adjustment Switches For Positive Switch Settings



U.L. Recognized
Guide No.: NKCR2
File No.: E80165

CSA Certified
File No.: LR51404

SPECIFICATIONS

1. Time Delay.
1.1 Type: C/MOS digital circuitry
1.2 Range: Three ranges available. Setting of the delay is accomplished via a 10 position dip switch located on the control's top surface. The required delay is selected by the addition of individual switch delays set in the on position. *(See ordering information)*
1.3 Repeat accuracy: ±.1% under fixed conditions
1.4 Setting accuracy: ±1%
1.5 Reset time: 50 milliseconds maximum
1.6 Recycle time: 100 milliseconds during timing
50 milliseconds after timing
1.7 Time delay vs. voltage and temperature: ±2%

2. Input.
2.1 Operating voltage: 24, 120 & 230 VAC,
12, 24/28 & 110 VDC
2.2 Tolerance: ±20% of nominal
2.3 Frequency: 50 - 60 Hertz

3. Output.
3.1 Type: Electromechanical relay
3.2 Form: DPDT or SPDT *(see connection diagram)*
3.3 Rating: 10 amperes resistive @ 120 VAC
3.4 Life: Electrical - full load - 1,000,000 operations
Mechanical - 10,000,000 operations

4. Protection.
4.1 Transient: ±1500 volts for 150 microseconds
4.2 Polarity: D.C. units are reverse polarity protected
4.3 Dielectric breakdown: 1500 volts RMS minimum

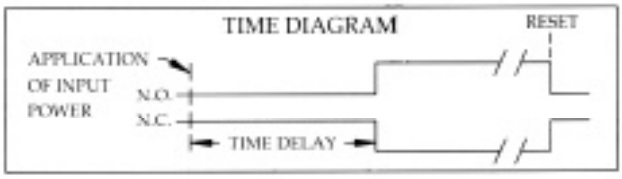
5. Mechanical.
5.1 Mounting: Plug-in
5.2 Termination: Octal, 11 pin or stab/square base plug-in

6. Environmental.
6.1 Operating temperature: -20°C to +80°C
6.2 Storage temperature: -30°C to +85°C

MODE OF OPERATION - SERIES

DELAY ON MAKE - BMR

Upon application of power to the input terminals, the time delay begins. At the completion of the pre-selected time delay, the output contacts transfer. Reset is accomplished by removal of input power. There is no false output when reset during timing.

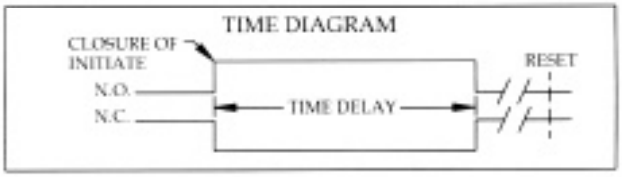


INTERVAL - BIR

Upon application of power to the input terminals, the output contacts immediately transfer and the time delay begins. At the completion of the pre-selected time delay, the output contacts revert to their original position. Reset is accomplished by removal of input power.

SINGLE SHOT - BSR

Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch (momentary or maintained) the output contacts transfer and the time delay begins. At the completion of the pre-selected delay period, the output contacts revert to their original position. Removal of input power will reset the control.



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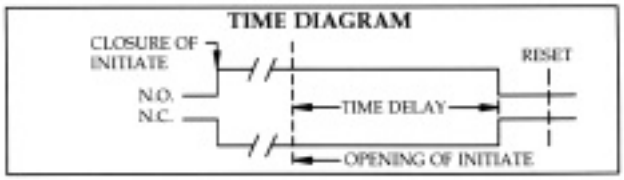
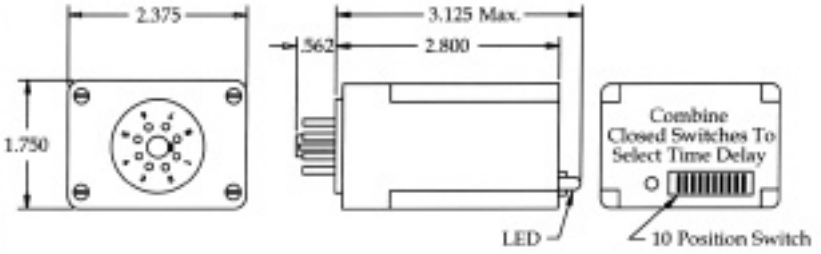
DELAY ON BREAK - BBR

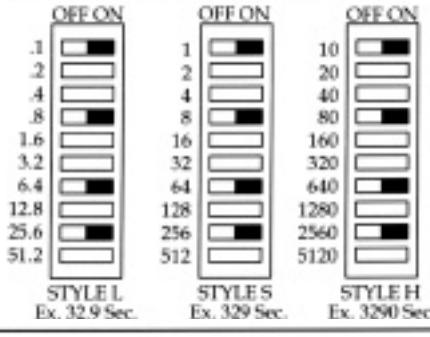
Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch, the output contacts transfer and remain transferred if no further action is taken. When the initiate switch is opened, the time delay begins. At the end of the pre-selected delay period, the output contacts revert to their original position. Removal of input power will reset the control.



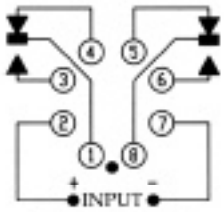
DIMENSIONS



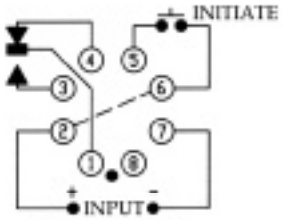
DELAY SETTINGS



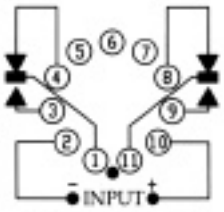
CONNECTION DIAGRAM



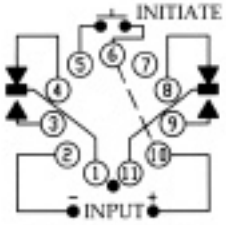
BIR-BMR 8-PIN



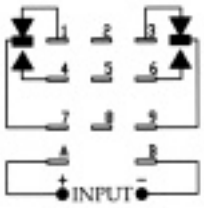
BBR-BSR 8-PIN



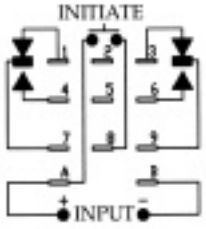
BIR-BMR 11-PIN



BBR-BSR 11-PIN



BIR-BMR STAB\SQUARE BASE



BBR-BSR STAB\SQUARE BASE

ORDERING INFORMATION

SERIES	BASE STYLE	INPUT VOLTAGE	DELAY SETTING
BBR **BIR** **BMR** **BSR**	**1** - Octal Plug-In (8 Pin) **2** - 11 Pin Plug-In **3** - 11 Pin Stab/ Square Base	**1** - 12 VDC **2** - 24/28 VDC **3** - 110 VDC **4** - 24 VAC **5** - 120 VAC **6** - 230 VAC	**L** - Low Range, .1 to 102.3 Seconds **S** - Standard Range, 1 to 1023 Seconds **H** - High Range, 10 to 10230 Seconds

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C SERIES DIGITAL PLUG-IN TIME DELAY RELAY

U.L. Recognized
Guide No.: NKCR2
File No.: E80165

CSA Certified
File No.: LR51404

FEATURES

- C/MOS Digital Circuitry
- Time Delays To 1000 Minutes
- No First Cycle Effect
- .5% Repeat Accuracy
- 2% Stability Over Voltage And Temperature
- Wide Voltage Selection 24-230 VAC, 12-110 VDC
- Octal, 11 Pin, Stab/Square Base Plug-In Termination
- Five Modes Of Operation

SPECIFICATIONS

1. Time Delay.
1.1 Type: C/MOS digital circuitry
1.2 Range: From .05 seconds to 1000 minutes. Fixed delays available.
1.3 Repeat accuracy: ±.5% under fixed conditions
1.4 Setting accuracy: ±10%
1.5 Reset time: 100 milliseconds maximum,
1.6 Recycle time: 100 milliseconds during timing, 50 milliseconds after timing
1.7 Time delay vs. voltage and temperature: ±2%

2. Input.
2.1 Operating voltage: 24, 120 & 230 VAC, 12, 24/28 & 110 VDC
2.2 Tolerance: ±20% of nominal
2.3 Frequency: 50 - 60 Hertz

3. Output.
3.1 Type: Electromechanical relay
3.2 Form: DPDT or SPDT *(see connection diagram)*
3.3 Rating: 10 amperes resistive @ 120 VAC
3.4 Life: Electrical - full load - 1,000,000 operations
Mechanical - 10,000,000 operations

4. Protection.
4.1 Transient: ±1500 volts for 150 microseconds
4.2 Polarity: DC units are reverse polarity protected
4.3 Dielectric breakdown: 1500 volts RMS minimum

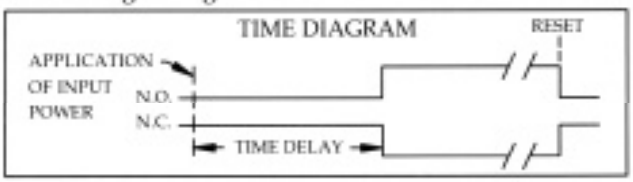
5. Mechanical.
5.1 Mounting: Plug-in
5.2 Termination: Octal, 11 pin or stab/square base plug-in

6. Environmental.
6.1 Operating temperature: -20°C to +80°C
6.2 Storage temperature: -30°C to +85°C

MODE OF OPERATION - SERIES

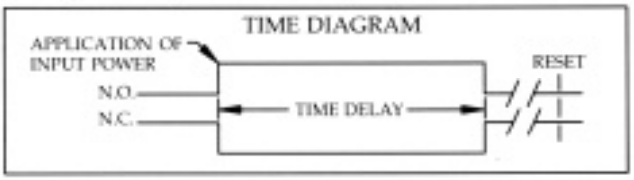
DELAY ON MAKE - CMR

Upon application of power to the input terminals, the time delay begins. At the completion of the pre-selected time delay, the output contacts transfer. Reset is accomplished by removal of input power. There is no false output when reset during timing.



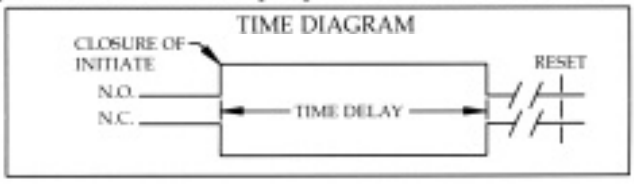
INTERVAL - CIR

Upon application of power to the input terminals, the output contacts immediately transfer and the time delay begins. At the completion of the pre-selected time delay, the output contacts revert to their original position. Reset is accomplished by removal of input power.



SINGLE SHOT - CSR

Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch (momentary or maintained) the output contacts transfer and the time delay begins. At the completion of the pre-selected delay period, the output contacts revert to their original position. Removal of input power will reset the control.



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C SERIES

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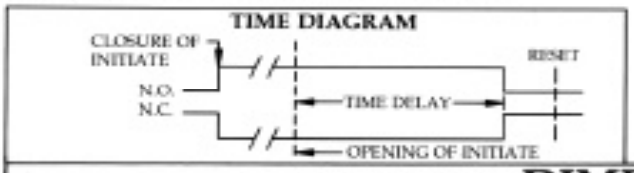
TIMERS & FLASHERS

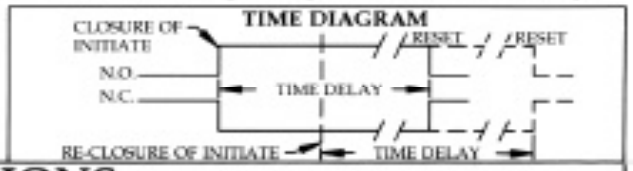
DELAY ON BREAK - CBR

Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch, the output contacts transfer and remain transferred if no further action is taken. When the initiate switch is opened, the time delay begins. At the end of the pre-selected delay period, the output contacts revert to their original position. Removal of input power will reset the control.

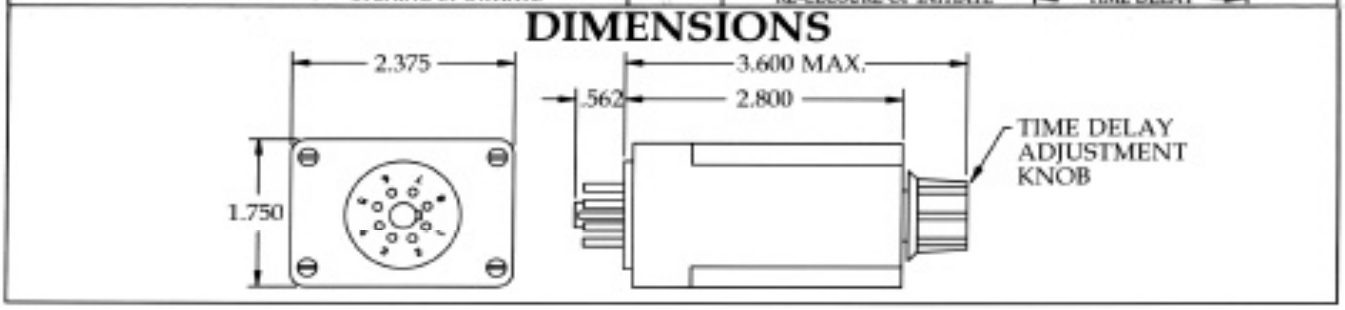


RETRIGGERABLE ONE-SHOT - COR

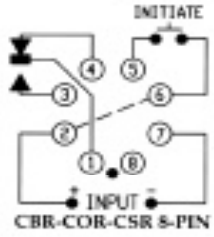
Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch (momentary or maintained) the output contacts transfer and the time delay begins. At the completion of the pre-selected time delay the output contacts revert to their original position. **NOTE:** Momentary or maintained closure of initiate switch during timing will reset the time delay.

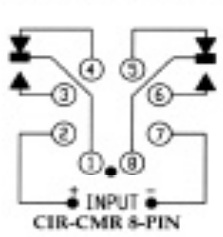


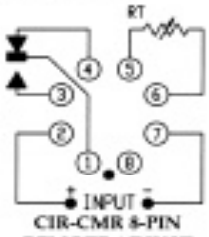
DIMENSIONS

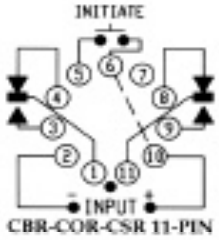


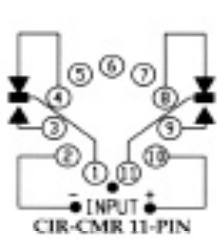
CONNECTION DIAGRAM

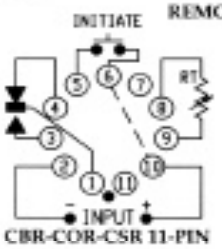


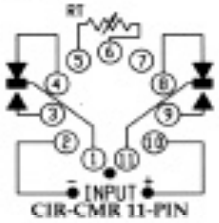


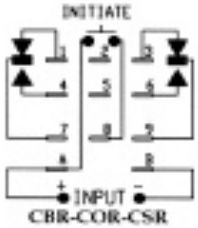


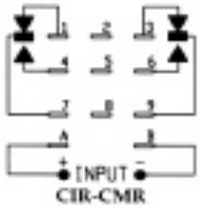


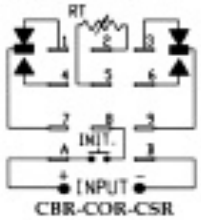


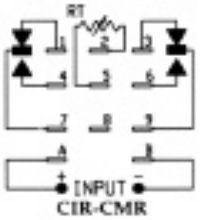












ORDERING INFORMATION

SERIES	BASE STYLE	INPUT VOLTAGE	ADJUSTMENT	TIME DELAY RANGE
CBR CIR CMR COR CSR	1 - Octal Plug-In (8 Pin) 2 - 11 Pin Plug-In 3 - 11 Pin Stab/Square Base	1 - 12 VDC 2 - 24/28 VDC 3 - 110 VDC 4 - 24 VAC 5 - 120 VAC 6 - 230 VAC	0 - Knob 1 - Fixed 2 - Remote Adjustment Note: CBR,COR & CSR not available in Base Style 1 3 - Lockshaft	**Call For Available Time Delay Ranges**

B SERIES BINARY DIGITAL ENCAPSULATED TIME DELAY MODULES

FEATURES

- C/MOS Digital Circuitry
- Three Modes Of Operation
- .5% Repeat Accuracy
- Wide Voltage Selection 24-230 VAC
- No First Cycle Effect
- Output Rated At 1 Ampere Continuous - 10 Amperes Inrush
- Rocker Type Time Delay Adjustment Switches For Positive Switch Settings

U.L. Recognized
Guide No.: NKCR2
File No.: E80165

CSA Certified
File No.: LR51404

SPECIFICATIONS

1. Time Delay.
- 1.1 Type: C/MOS digital circuitry
- 1.2 Range: Three ranges available. Setting of the delay is accomplished via a 10 position dip switch located on the control's top surface. The required delay is selected by the addition of individual switch delays set in the on position. *(See ordering information)*
- 1.3 Repeat accuracy: ±.5% under fixed conditions
- 1.4 Setting accuracy ±10%
- 1.5 Reset time: 50 milliseconds maximum
- 1.6 Recycle time: 100 milliseconds during timing, 50 milliseconds after timing
- 1.7 Time delay vs. voltage and temperature: ±2%

2. Input.
- 2.1 Operating voltage: 24, 120 & 230 VAC
- 2.2 Tolerance: ±20% of nominal
- 2.3 Frequency: 50 - 60 Hertz

3. Output.
- 3.1 Type: Solid state
- 3.2 Form: SPST
- 3.3 Rating: 1 ampere *(20 milliamps minimum)* 10 ampere inrush
- 3.4 Life: 100,000,000 operations minimum under full load

4. Protection.
- 4.1 Transient: ±1500 volts for 150 microseconds
- 4.2 Polarity: DC units are reverse polarity protected
- 4.3 Dielectric breakdown: 1500 volts RMS minimum

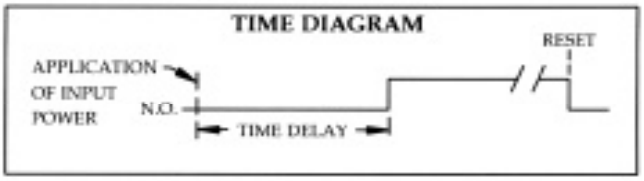
5. Mechanical.
- 5.1 Mounting: One #8 or #10 screw
- 5.2 Termination: 1/4" quick connect terminals
- 5.3 Style: Surface mount encapsulated

6. Environmental.
- 6.1 Operating temperature: -20°C to +80°C
- 6.2 Storage temperature: -30°C to +85°C

MODE OF OPERATION - SERIES

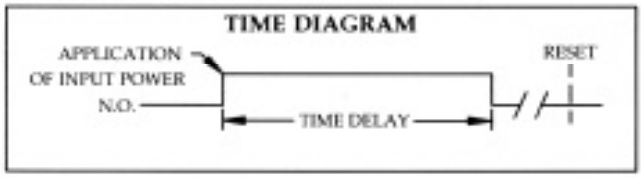
DELAY ON MAKE - BMS

Upon application of power to the input terminals, the time delay begins. At the completion of the pre-selected time delay, the output contact transfers. Reset is accomplished by removal of input power. There is no false output when reset during timing.



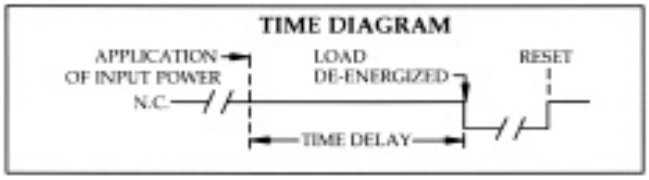
INTERVAL - BIS

Upon application of power to the input terminals, the output contact immediately transfers and the time delay begins. At the completion of the pre-selected time delay, the output contact reverts to it's original position. Reset is accomplished by removal of input power.



DELAY ON MAKE, NORMALLY CLOSED - BCS

The output is in a normally closed state. Upon application of power to the input terminals, the output contact transfers and the time delay begins. At the completion of the time delay the output contact drops out. Removal of input power from terminal 3 resets the delay and the output contact reverts to it's original closed position.

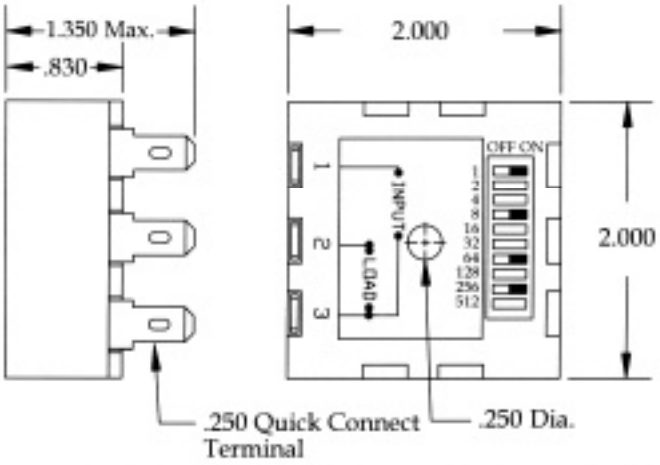


B SERIES

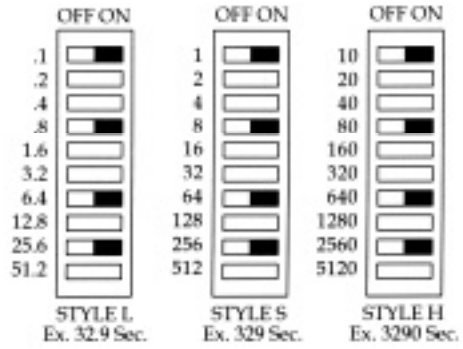
10

TIMERS & FLASHERS

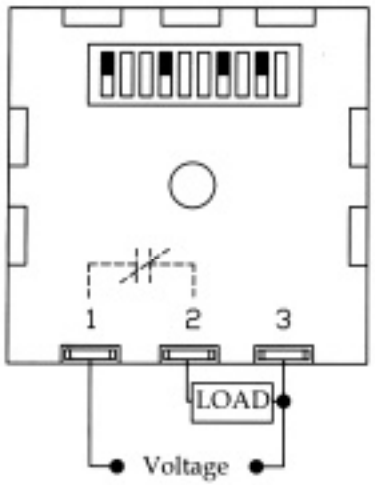
DIMENSIONS



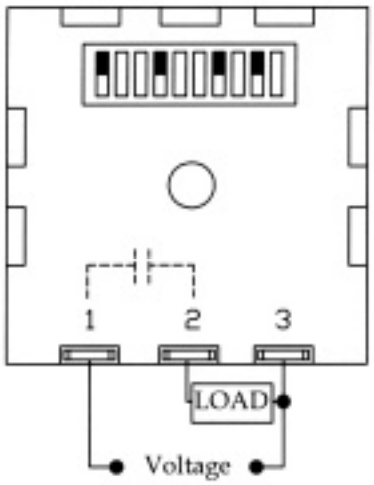
DELAY SETTINGS



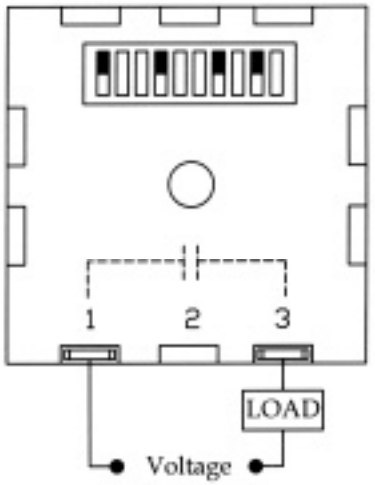
CONNECTION DIAGRAMS



BCS
Delay on Make
Normally Closed



BIS
Interval



BMS
Delay on Make

ORDERING INFORMATION

SERIES	INPUT VOLTAGE	DELAY SETTING
BCS **BIS** **BMS**	**4** - 24 VAC **5** - 120 VAC **6** - 230 VAC	**L** - Low Range, .1 to 102.3 Seconds **S** - Standard Range, 1 to 1023 Seconds **H** - High Range, 10 to 10230 Seconds

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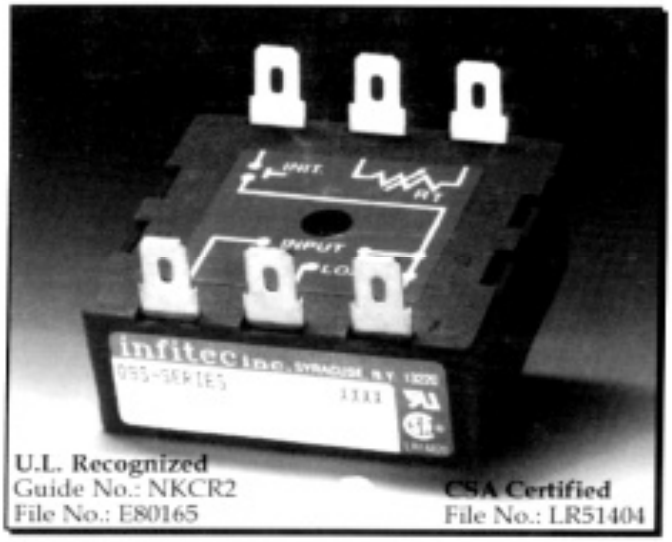
Q SERIES
DIGITAL ENCAPSULATED TIME DELAY MODULES

FEATURES

- C/MOS Digital Circuitry
- Time Delays To 1000 Minutes
- No First Cycle Effect
- Fully Solid State And Encapsulated
- .5% Repeat Accuracy
- Seven Different Modes Of Operation
- Output Rated at 1 Ampere Continuous, 10 Amperes Inrush
- Fixed Or Adjustable Time Delays
- Small Size



U.L. Recognized
Guide No.: NKCR2
File No.: E80165

CSA Certified
File No.: LR51404

SPECIFICATIONS

1. Time Delay.
- 1.1 Type: C/MOS digital circuitry
- 1.2 Range: From .05 seconds to 1000 minutes. Fixed delays available.
- 1.3 Repeat accuracy: ±.5% under fixed conditions
- 1.4 Setting accuracy: ±10%
- 1.5 Reset time: 50 milliseconds maximum
- 1.6 Recycle time: 100 milliseconds during timing, 50 milliseconds after timing
- 1.7 Time delay vs. voltage and temperature: ±2%

2. Input.
- 2.1 Operating voltage: 24, 120 & 230 VAC, 12 & 24/28 VDC
- 2.2 Tolerance: ±20% of nominal
- 2.3 Frequency: 50 - 60 Hertz

3. Output.
- 3.1 Type: Solid state
- 3.2 Form: SPST
- 3.3 Rating: 1 ampere *(20mA minimum)* - 10 amperes inrush
- 3.4 Life: 100,000,000 operations minimum under full load

4. Protection.
- 4.1 Transient: ±1500 volts for 150 microseconds
- 4.2 Polarity: DC units are reverse polarity protected
- 4.3 Dielectric breakdown: 1500 volts RMS minimum

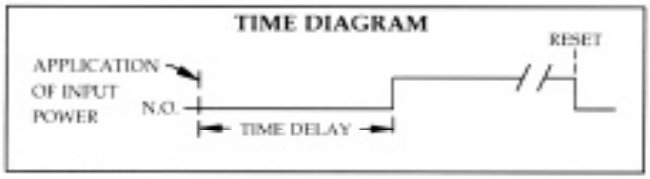
5. Mechanical.
- 5.1 Mounting: One #8 or #10 screw
- 5.2 Termination: 1/4" quick connect terminals
- 5.3 Style: Surface mount encapsulated

6. Environmental.
- 6.1 Operating temperature: -20°C to +80°C
- 6.2 Storage temperature: -30°C to +85°C
- 6.3 Humidity: 95% relative non-condensing

MODE OF OPERATION - SERIES

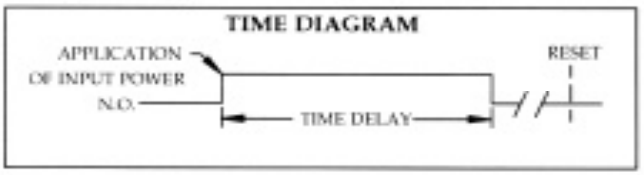
DELAY ON MAKE - QMS, QMSA

Upon application of power to the input terminals, the time delay begins. At the completion of the pre-selected time delay, the output contact transfers. Reset is accomplished by removal of input power. There is no false output when reset during timing.



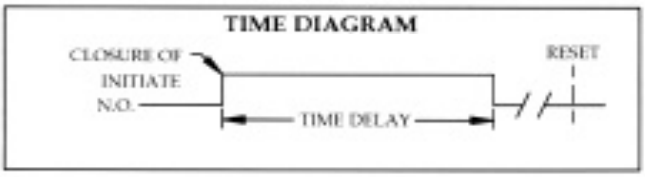
INTERVAL - QIS

Upon application of power to the input terminals, the output contact immediately transfers and the time delay begins. At the completion of the pre-selected time delay, the output contact reverts to it's original position. Reset is accomplished by removal of input power.



SINGLE SHOT - QSS

Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch (momentary or maintained) the output contact transfers and the time delay begins. At the completion of the pre-selected delay period, the output contact reverts to it's original position. Removal of input power will reset the control.



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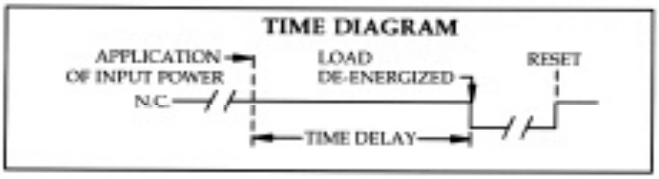
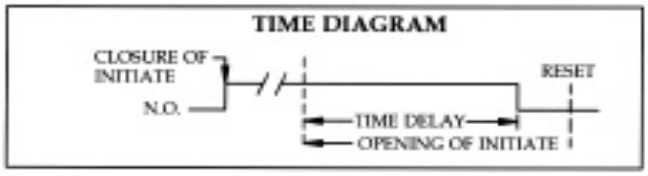
DELAY ON MAKE, NORMALLY CLOSED - QCS

The output is in a normally closed state. Upon application of power to the input terminals, the output contact transfers and the time delay begins. At the completion of the time delay the output contact drops out. Removal of input power from terminal 3 resets the delay and the output contact reverts to it's original closed position.



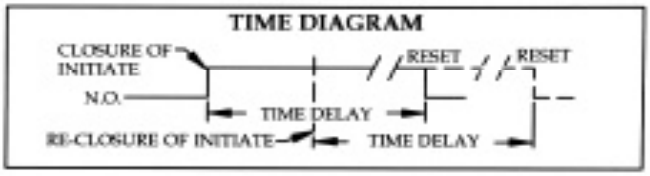
DELAY ON BREAK - QBS

Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch, the output contact transfers and remains transferred if no further action is taken. When the initiate switch is opened, the time delay begins. At the completion of the pre-selected delay period the output contact reverts to it's original position. Removal of input power will reset the control.

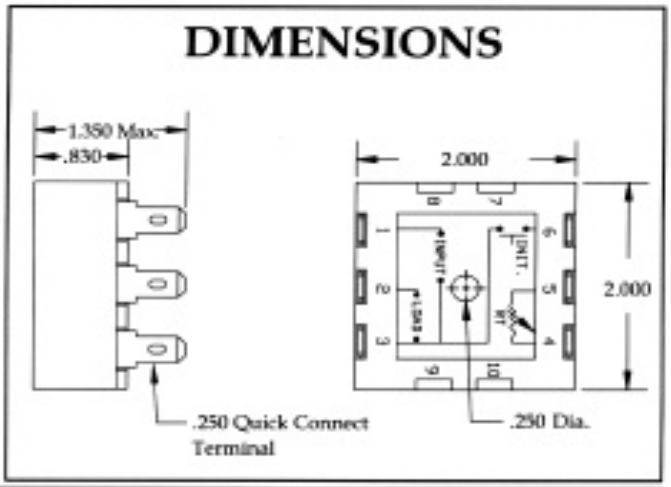


RETRIGGERABLE ONE-SHOT - QOS

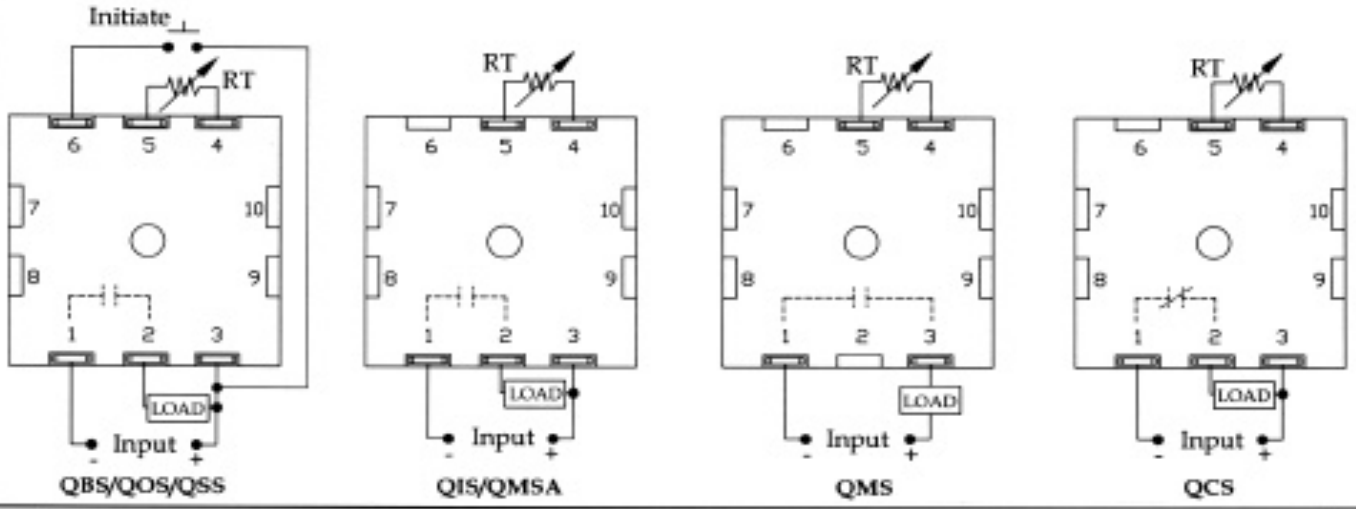
Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch (momentary or maintained) the output contact transfers and the time delay begins. At the completion of the pre-selected delay period, the output contact reverts to it's original position. **NOTE:** Momentary or maintained closure of initiate switch during timing will reset the time delay.



DIMENSIONS



CONNECTION DIAGRAM



ORDERING INFORMATION

SERIES	INPUT VOLTAGE	ADJUSTMENT	TIME DELAY RANGE
QBS QCS QIS QMS QMSA QOS QSS	1 - 12 VDC 2 - 24/28 VDC 4 - 24 VAC 5 - 120 VAC 6 - 230 VAC	1 - Fixed 2 - External Adjust	**Call For Available Time Delay Ranges**

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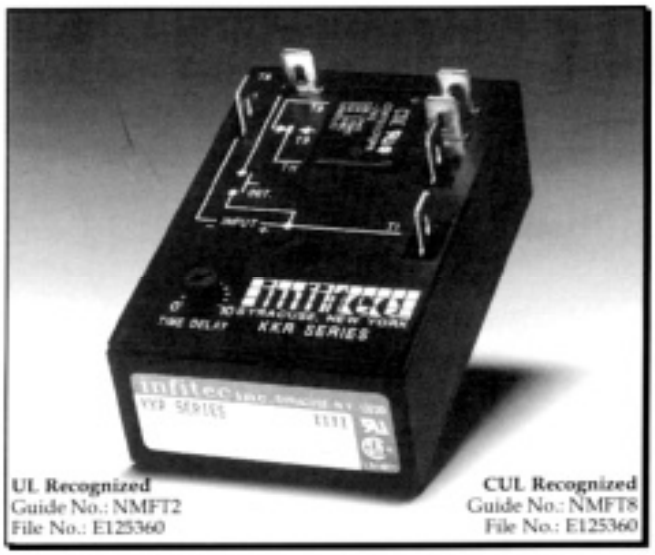
KKR SERIES MEDIUM/HIGH POWER TIMING CONTROLS

FEATURES

- C/MOS Digital Circuitry
- Time Delays To 1000 Minutes
- No First Cycle Effect
- .5% Repeat Accuracy
- Wide Voltage Selection 24-230 VAC, 12-28 VDC
- Available In Medium Or High Power Output Ratings
- Outputs Available Isolated Or Non-Isolated
- No Heatsinking Required
- Encapsulated To Withstand Harshest Environments
- Six Modes Of Operation



UL Recognized
Guide No.: NMFT2
File No.: E125360

CUL Recognized
Guide No.: NMFT8
File No.: E125360

SPECIFICATIONS

1. Time Delay.
1.1 Type: C/MOS digital circuitry
1.2 Range: From .05 seconds to 1000 minutes. Fixed delays available.
1.3 Repeat accuracy: ±.5% under fixed conditions
1.4 Setting accuracy: ±10%
1.5 Reset time: 50 milliseconds maximum
1.6 Recycle time: 100 milliseconds
1.7 Time delay vs. voltage and temperature: ±5%

2. Input.
2.1 Operating voltage: 24, 120 & 230 VAC, 12 & 24/28 VDC
2.2 Tolerance: ±20% of nominal
2.3 Frequency: 50 - 60 Hertz

3. Output.
3.1 Type: Electromechanical relay
3.2 Form: SPDT
3.3 Rating: Medium power - 10 amperes, 1/4 hp @ 125 VAC
High power - 20 amperes, 1 hp @ 125 VAC
Note: Available with isolated or non-isolated contacts
3.4 Life: Medium power =
Electrical - full load - 1,000,000 operations
Mechanical - 10,000,000 operations
High power =
Electrical - full load - 100,000 operations
Mechanical - 10,000,000 operations

4. Protection.
4.1 Transient: ±1500 volts for 150 microseconds
4.2 Polarity: DC units are reverse polarity protected
4.3 Dielectric breakdown: 1500 volts RMS minimum

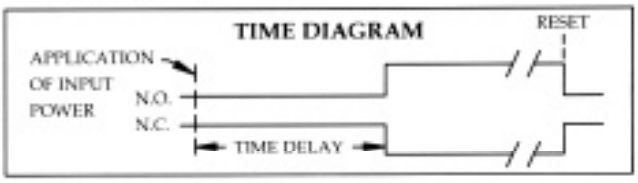
5. Mechanical.
5.1 Mounting: .250 dia. hole (#10 screw clearance)
5.2 Termination: 1/4" quick connect terminals
5.3 Style: Surface mount encapsulated

6. Environmental.
6.1 Operating temperature: -20°C to +80°C
6.2 Storage temperature: -30°C to +85°C
6.3 Humidity: 95% relative non-condensing

MODE OF OPERATION - SERIES

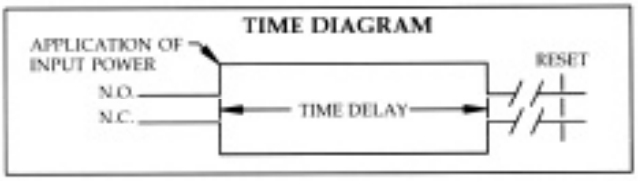
DELAY ON MAKE - KMKR

Upon application of power to the input terminals, the time delay begins. At the completion of the pre-selected time delay, the output contacts transfer. Reset is accomplished by removal of input power. There is no false output when reset during timing.



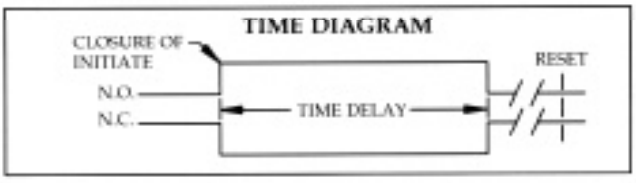
INTERVAL - KIKR

Upon application of power to the input terminals, the output contacts immediately transfer and the time delay begins. At the completion of the pre-selected time delay, the output contacts revert to their original position. Reset is accomplished by removal of input power.



SINGLE SHOT - KSKR

Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch (momentary or maintained) the output contacts transfer and the time delay begins. At the completion of the pre-selected time delay, the output contacts revert to their original position. Removal of input power will reset the control.



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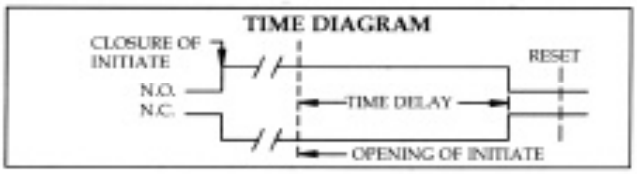
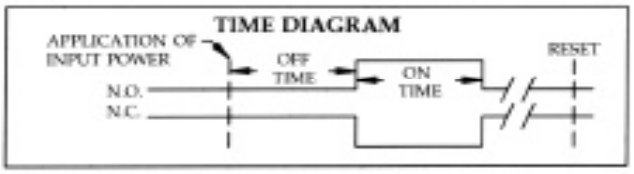
DELAY ON BREAK - KBKR

Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch, the output contacts transfer and remain transferred if no further action is taken. When the initiate switch is opened, the time delay begins. At the end of the pre-selected time delay the output contacts revert to their original unenergized position. Removal of input power will reset the control.



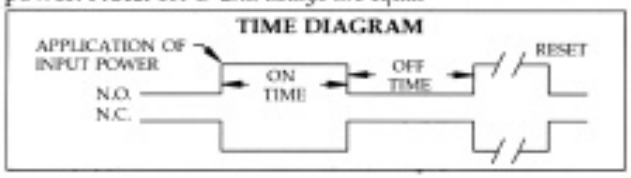
OFF/ON RECYCLE - KRKR

Upon application of power to the input terminals, the **OFF** delay begins. Upon completion of the **OFF** delay, the output contacts transfer and the **ON** delay begins. Upon completion of the **ON** delay, the output contacts revert to their original position and the cycle repeats. Reset is accomplished by removal of input power. **Note:** *1st & 2nd delays are equal*



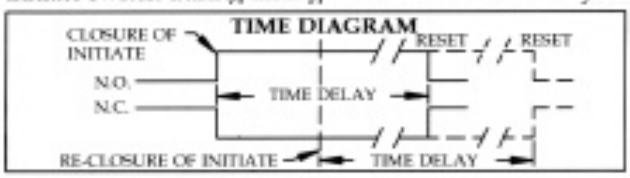
ON/OFF RECYCLE - KRKR

Upon application of power to the input terminals, the **ON** delay begins and the output contacts transfer. Upon completion of the **ON** delay, the output contacts revert back to their original position and the **OFF** delay begins. Upon completion of the **OFF** delay, the output contacts again transfer and the cycle repeats. Reset is accomplished by removal of input power. **Note:** *1st & 2nd delays are equal*

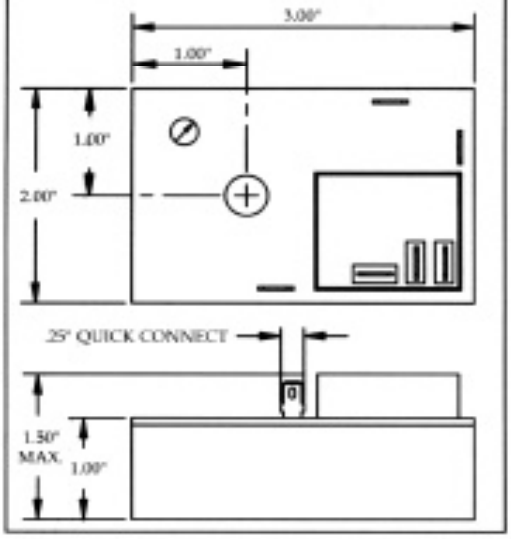


RETRIGGERABLE ONE-SHOT - KOKR

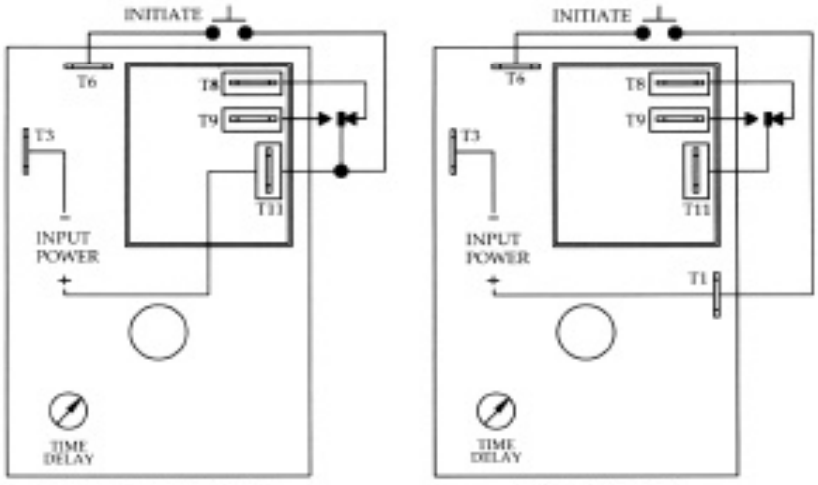
Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch (momentary or maintained) the output contacts transfer and the time delay begins. At the completion of the pre-selected time delay the output contacts revert to their original position. **NOTE:** Momentary or maintained closure of initiate switch during timing will reset the time delay.



DIMENSIONS



CONNECTION DIAGRAM



Non-Isolated Output **Isolated Output**

ORDERING INFORMATION

SERIES	INPUT VOLTAGE	OUTPUT RATING	ADJUSTMENT	TIME DELAY RANGE	
KBKR KIKR KMKR KOKR KSKR	1 - 12 VDC 2 - 24/28 VDC 4 - 24 VAC 5 - 120 VAC 6 - 230 VAC	A - Medium Power (10A N.O., 5A N.C.) Isolated B - High Power (20A N.O., 10A N.C.) Isolated E - Medium Power (10A N.O., 5A N.C.) Non-Isolated F - High Power (20A N.O., 10A N.C.) Non-Isolated	0 - Knob 1 - Fixed 2 - Remote Adjustment	**Call For Available Time Delay Ranges**	
KRKR				**CYCLE**	**TIME DELAY**
				1 - On Time First 2 - Off Time First	**Call For Available Time Delay Ranges** *NOTE: 1st & 2nd delays are equal*

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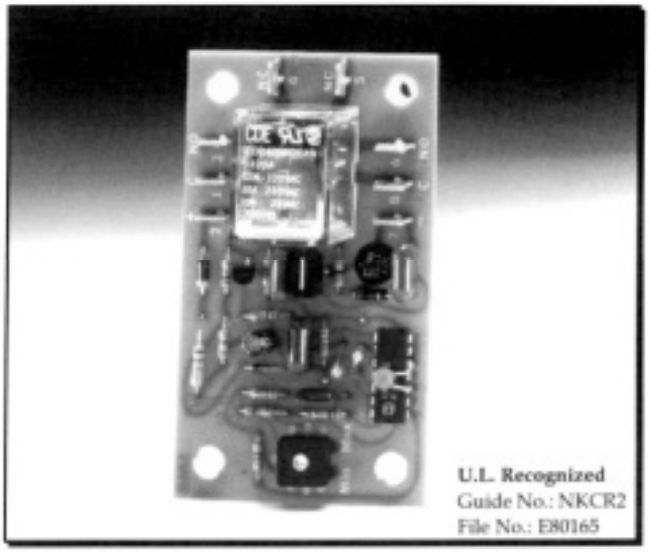
S SERIES
DIGITAL OPEN BOARD TIME DELAY RELAYS

FEATURES

- C/MOS Digital Circuitry
- Time Delays To 1000 Minutes
- No First Cycle Effect
- .5% Repeat Accuracy
- DPDT 10 Ampere Output Rating
- 1/4" Or 3/16" Quick Connect Termination
- Low Cost Open Board Construction
- Fully Solid State Timing
- Surface Mounting
- Five Modes Of Operation
- Available With On Board Timing Adjustment
- CUL Pending



U.L. Recognized
Guide No.: NKCR2
File No.: E80165

SPECIFICATIONS

1. Time Delay.
1.1 Type: C/MOS digital circuitry
1.2 Range: From .05 seconds to 1000 minutes. Fixed delays available.
1.3 Repeat accuracy: ±.5% under fixed conditions
1.4 Setting accuracy: ±10%
1.5 Reset time: 100 milliseconds maximum
1.6 Recycle time: 100 milliseconds during timing, 50 milliseconds after timing
1.7 Time delay vs. voltage and temperature: ±2%

2. Input.
2.1 Operating voltage: 24, 120 & 230 VAC, 12, 24/28 & 110 VDC
2.2 Tolerance: ±20% of nominal
2.3 Frequency: 50 - 60 Hertz

3. Output.
3.1 Type: Electromechanical relay
3.2 Form: DPDT
3.3 Rating: 10 amperes resistive @ 120 VAC
3.4 Life: Electrical - full load - 1,000,000 operations
Mechanical - 10,000,000 operations

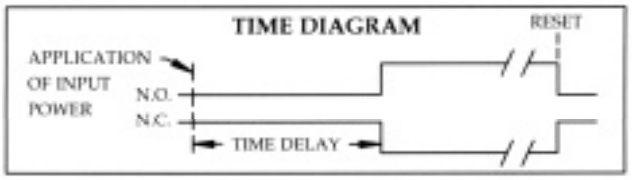
4. Protection.
4.1 Transient: ±1500 volts for 150 microseconds
4.2 Polarity: D.C. units are reverse polarity protected
4.3 Dielectric breakdown: 1500 volts RMS minimum

5. Mechanical.
5.1 Mounting: #6 screw clearance (4 places)
5.2 Termination: 1/4" or 3/16" quick connect
5.3 Style: Open board/surface mount

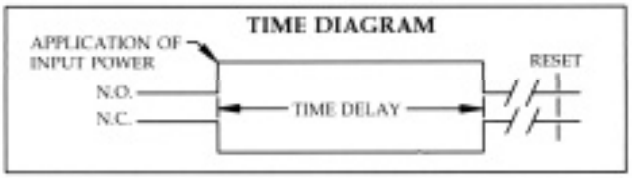
6. Environmental.
6.1 Operating temperature: -20°C to +80°C
6.2 Storage temperature: -30°C to +85°C

MODE OF OPERATION - SERIES

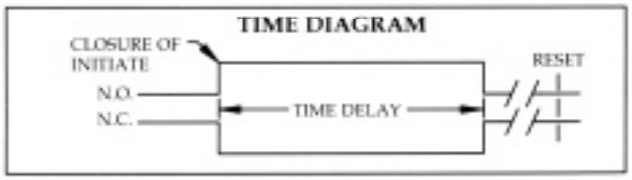
DELAY ON MAKE - SMR
Upon application of power to the input terminals, the time delay begins. At the completion of the pre-selected time delay, the output contacts transfer. Reset is accomplished by removal of input power. There is no false output when reset during timing.



INTERVAL - SIR
Upon application of power to the input terminals, the output contacts immediately transfer and the time delay begins. At the completion of the pre-selected time delay, the output contacts revert to their original position. Reset is accomplished by removal of input power.



SINGLE SHOT - SSR
Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch (momentary or maintained) the output contacts transfer and the time delay begins. At the completion of the pre-selected delay period, the output contacts revert to their original position. Removal of input power will reset the control.



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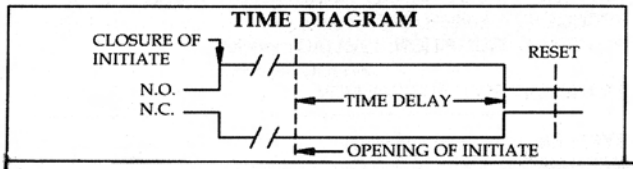
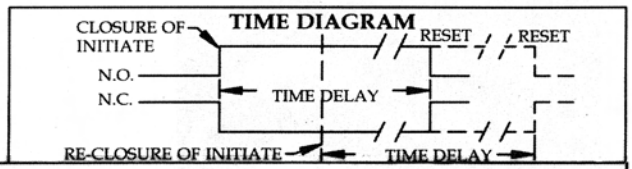
DELAY ON BREAK - SBR

Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch, the output contacts transfer and remain transferred if no further action is taken. When the initiate switch is opened, the time delay begins. At the end of the pre-selected delay period, the output contacts revert to their original position. Removal of input power will reset the control.

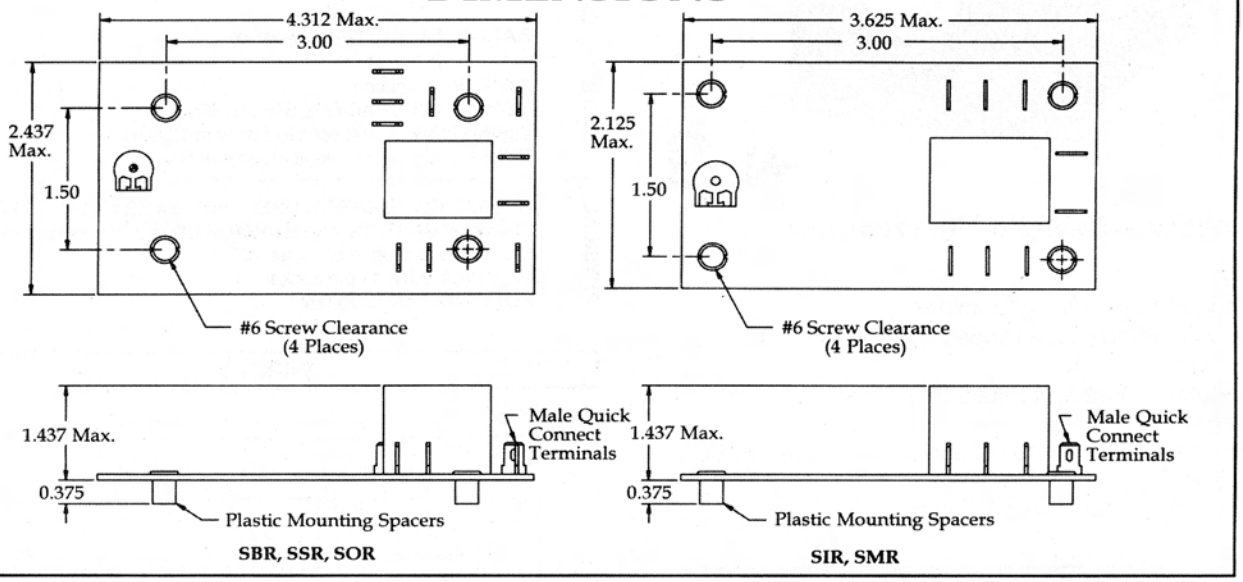


RETRIGGERABLE ONE-SHOT - SOR

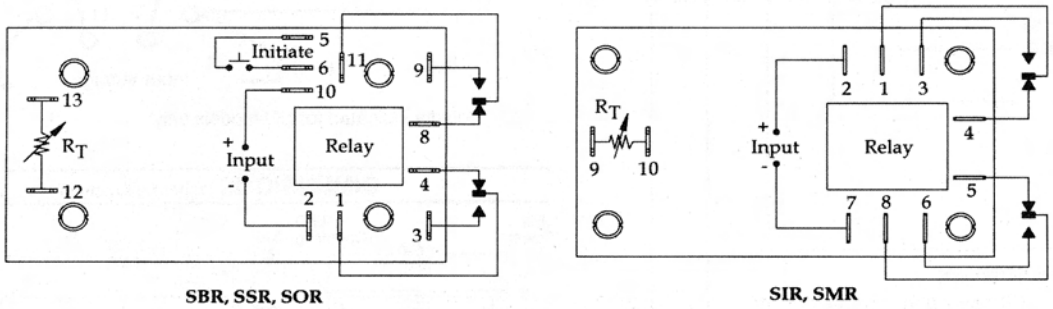
Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch (momentary or maintained) the output contacts transfer and the time delay begins. At the completion of the pre-selected time delay the output contacts revert to their original position. **NOTE:** Momentary or maintained closure of initiate switch during timing will reset the time delay.



DIMENSIONS



CONNECTION DIAGRAM



ORDERING INFORMATION

SERIES	TERMINATION	INPUT VOLTAGE	ADJUSTMENT	TIME DELAY RANGE
SBR **SIR** **SMR** **SOR** **SSR**	**2** - 3/16" Quick Connect **3** - 1/4" Quick Connect	**1** - 12 VDC **2** - 24/28 VDC **3** - 110 VDC **4** - 24 VAC **5** - 120 VAC **6** - 230 VAC	**0** - Knob **1** - Fixed **2** - Remote Adjustment	**Call For Available Time Delay Ranges**

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