INDUSTRIAL SOLID STATE TIMER

MODEL 1010 BASE MOUNT

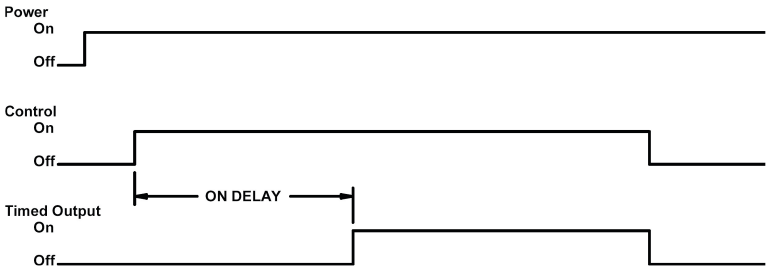
KANSON ELECTRONICS, INC.

Fast cycle rate timer available in four timing functions.

Features:

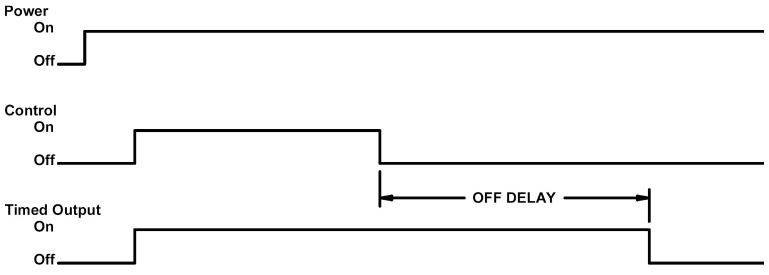
- External plug-in DPDT relay / accessory solid state output.
- Timing control contacts independent of unit input power.
- Time ranges from 0.06 to 500 seconds.
- 120 or 230 VAC input.
- 10 amp relay output.
- Remote adjust capability.
- Optional timing indication LED

TIMING



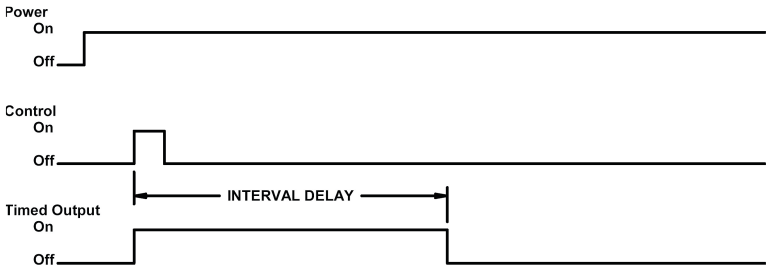
ON DELAY

- Control is independent of unit power.
- When control turns on, delay time elapses before output turns on.
- The output remains on until the unit is reset either by removing power or control.



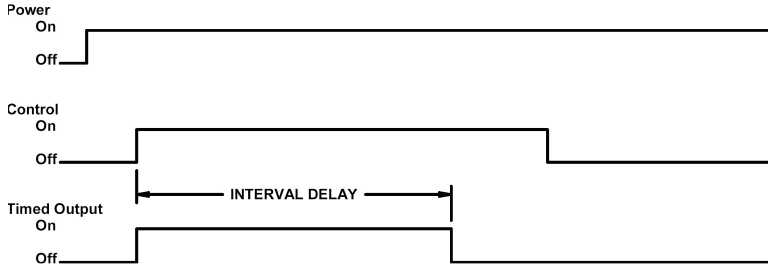
OFF DELAY

- Control is independent of unit power.
- When control turns on, the output turns on.
- When control turns off, the delay starts and output turns off after time elapses.



PULSE INTERVAL

- Control is independent of unit power.
- When control turns on, the output turns on. Output remains on while delay time elapses.
- Turning control on and off during delay time has no effect on the output or timing.



INTERVAL

- Control is independent of unit power.
- When control turns on, output turns on and delay time elapses before output returns to normal.
- If control changes during the delay time period, the output turns off and the delay time will reset.

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INDUSTRIAL SOLID STATE TIMER — MODEL 1010 BASE MOUNT

KANSON ELECTRONICS, INC.

SPECIFICATIONS

INPUT

VOLTAGE: 120VAC/230VAC
FREQUENCY: 50/60Hz
TOLERANCE (VOLTAGE): ±15% of nominal
POWER CONSUMPTION: 10VA maximum
TRANSIENT PROTECTION: Isolation transformer

OUTPUT

TYPE: Electromechanical relay (solid state available as an accessory)
RATING: 10A @ 240VAC maximum

TIMING

AVAILABLE TYPES: ON Delay, OFF Delay, Pulse Interval, Interval
REPEAT ACCURACY: ±1% of setting
INDICATION: Optional LED - on when timing
(OFF Delay - LED on when output energized)
TIMING RAMP: 0.06 sec. minimum time - 100kΩ/sec.,
0.5 sec. minimum time - 10kΩ/sec.
TIME RANGE: 0.06 to 500 seconds in 12 ranges
RANGE TOLERANCE: ≤10% of setting
CONTROL: Isolated contact closure
CONTROL TERMINALS: E-F
VOLTAGE PRESENT AT CONTROL TERMINALS: 24VDC min./40VDC max.

PHYSICAL

OPERATING TEMP: 0° to 50° C (32° to 120° F)
TIMING VARIATION VS. TEMP: ±5% maximum
MOUNTING: Base mount
TERMINATION: Terminal blocks on face of timer
HOUSING: Metal

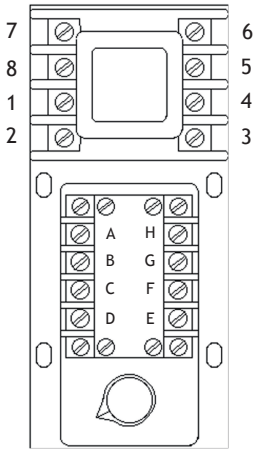
WIRING

OUTPUT B

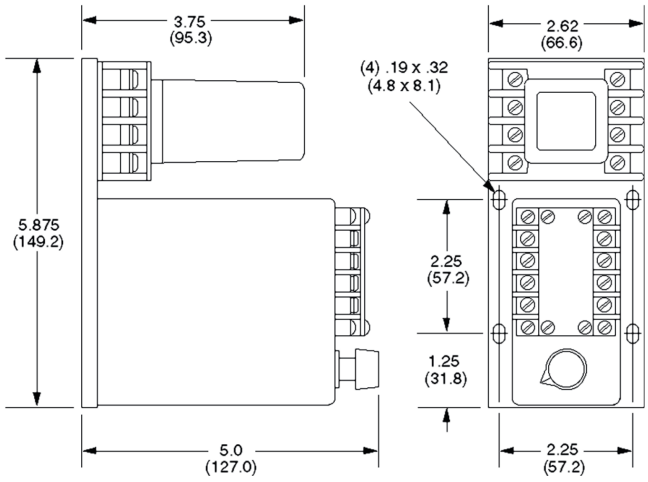
A-B Voltage Input (constant)
C-D Remote Adjust (jumper not used)
E-F Control (starts timing function)
G-H Not used
1-2 N.O. timed
3-4 N.C. timed
5-6 N.C. timed
7-8 N.O. timed

Caution: Never apply voltage to terminals C-D-E-F

WIRING TERMINAL LOCATION



DIMENSIONS INCH (MM)



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ORDERING DATA

ORDERING CODE **1010 - 1 - F - 4 - B ---**

BASIC MODEL NUMBER

1010

INPUT VOLTAGE

1	120 VAC
2	230 VAC

TIME RANGE (secs)

A	0.06 - 0.10
B	0.06 - 0.25
C	0.06 - 0.50
D	0.06 - 1.0
E	0.06 - 2.5
F	0.06 - 5.0
G	0.06 - 10.0
H	0.06 - 25.0
J	0.5 - 50.0
K	0.5 - 100
L	0.5 - 250
M	0.5 - 500
W	Factory fixed (within 5% of customer specified time)

TIMING FUNCTION

1	ON Delay
2	OFF Delay
4	Pulse Interval
5	Interval

OUTPUT

B	Relay DPDT (see accessories for solid state plug in outputs)

OPTION (If desired)

OP6	Timing indication light (on when timing / OFF Delay - on when output energized)

APPLICABLE ACCESSORIES

See accesory section for details

Output modules	RP-101, RP-104 thru RP-106
Potentiometers	RP-201 thru RP-210
Reference dial	RP-216
Locking attachment	RP-217

INDUSTRIAL SOLID STATE TIMER

MODEL 1012 PLUG-IN

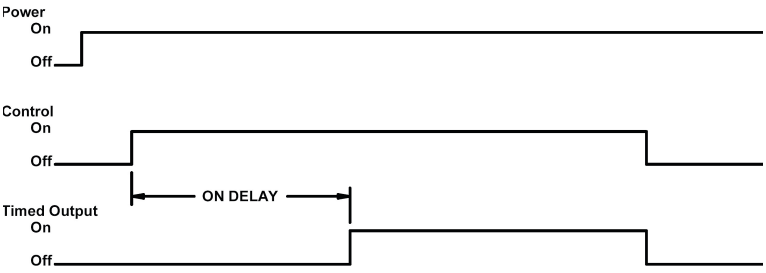
KANSON ELECTRONICS, INC.

Available in three timing functions

Features:

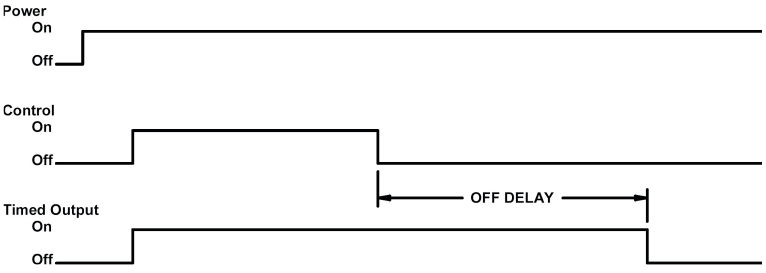
- 12 pin plug-in base.
- Control contacts independant of input power.
- Time ranges from 0.06 to 500 seconds.
- 120 or 24 VAC input.
- 10 amp relay output.
- Remote adjust capability.
- Optional timing indication LED

TIMING



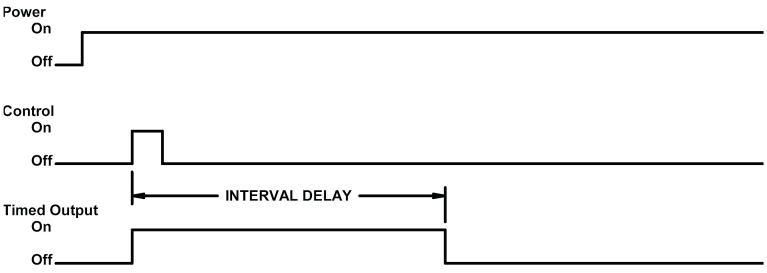
ON DELAY

- Control is independent of unit power.
- When control turns on, delay time elapses before output turns on.
- The output remains on until the unit is reset either by removing power or control.



OFF DELAY

- Control is independent of unit power.
- When control turns on, the output turns on.
- When the control turns off, the delay starts and output turns off after time elapses.



PULSE INTERVAL

- Control is independent of unit power.
- When control turns on, the output turns on. Output remains on while delay time elapses.
- Turning control on and off during delay time has no effect on the output or timing.

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INDUSTRIAL SOLID STATE TIMER — MODEL 1012 PLUG-IN

KANSON ELECTRONICS, INC.

SPECIFICATIONS

INPUT

VOLTAGE:	120VAC, 24VAC/DC
FREQUENCY:	50/60Hz
TOLERANCE (VOLTAGE):	±15% of nominal
POWER CONSUMPTION:	10VA maximum
TRANSIENT PROTECTION:	Isolation transformer (120VAC only)

OUTPUT

TYPE:	Electromechanical relay
MECHANICAL LIFE:	10,000,000 operations
ELECTRICAL LIFE:	300,000 operations
RATING:	10A @ 240VAC maximum

TIMING

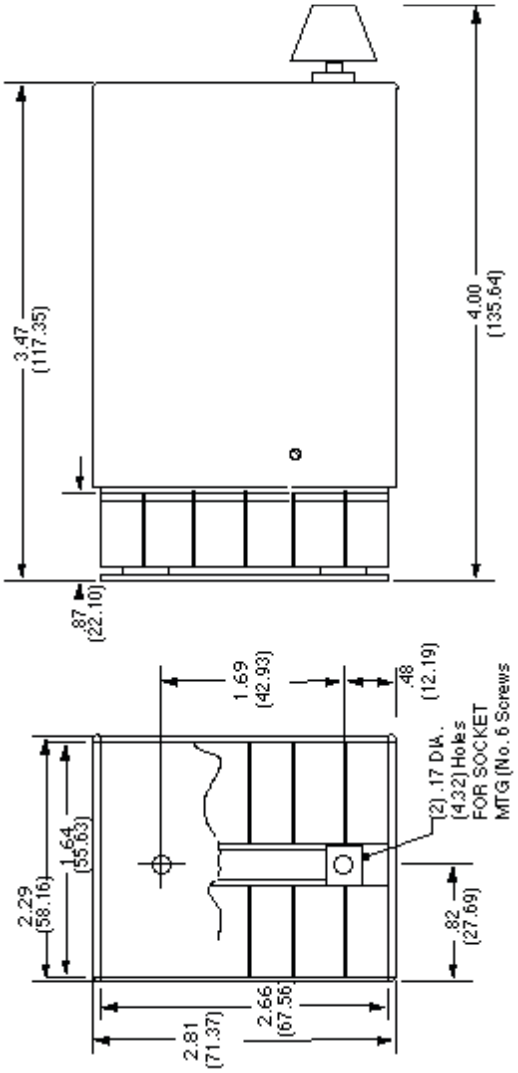
AVAILABLE TYPES:	ON Delay, OFF Delay, Pulse Interval
REPEAT ACCURACY:	±1% of setting
INDICATION:	Optional LED - on when timing
TIMING RAMP:	0.06 sec. minimum time - 100kΩ/sec., 0.5 sec. minimum time - 10kΩ/sec.
TIME RANGE:	0.06 to 500 seconds in 9 ranges
RANGE TOLERANCE:	≤10% of setting
CONTROL:	Isolated contact closure
CONTROL TERMINALS:	5-6

VOLTAGE PRESENT AT CONTROL TERMINALS: 24VDC min./40VDC max.

PHYSICAL

OPERATING TEMP:	0° to 50° C (32° to 120° F)
TIMING VARIATION VS. TEMP:	±5% maximum
MOUNTING:	Plug-In
TERMINATION:	12-pin socket
HOUSING:	Metal

DIMENSIONS INCH (MM)



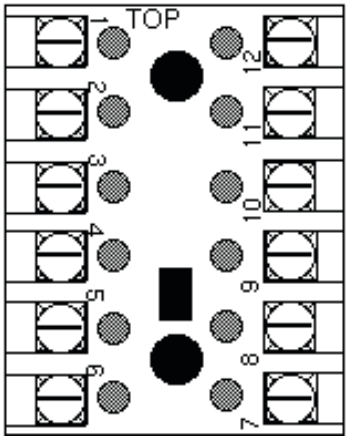
WIRING

OUTPUT B

1-2	Voltage Input (constant)
3-4	Remote Adjust (jumper not used)
5-6	Control (starts timing function)
7-8	N.O. timed
8-9	N.O. timed
10-11	N.C. timed
11-12	N.C. timed

Caution: Never apply voltage to terminals 3-4-5-6

WIRING TERMINAL LOCATION
12-PIN SOCKET



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ORDERING DATA

ORDERING CODE **1012 - 1 - E - 1 - B ---**

BASIC MODEL NUMBER
1012

INPUT VOLTAGE

1	120 VAC
2	24 VAC/DC

TIME RANGE (secs)

D	0.06 - 1.0
E	0.06 - 2.5
F	0.06 - 5.0
G	0.06 - 10.0
H	0.06 - 25.0
J	0.5 - 50.0
K	0.5 - 100
L	0.5 - 250
M	0.5 - 500
W	Factory fixed (within 5% of customer specified time)

TIMING FUNCTION

1	ON Delay
2	OFF Delay
4	Pulse Interval

OUTPUT

B	Relay DPDT

OPTION (If desired)

OP6	Timing indication light (on when timing / OFF Delay - on when output energized)

APPLICABLE ACCESSORIES

See accesory section for details

Potentiometers	RP-201 thru RP-210
Reference dial	RP-216
Locking attachment	RP-217
12 pin socket (one included)	RP-301

INDUSTRIAL SOLID STATE TIMER

MODEL 1013 BASE MOUNT

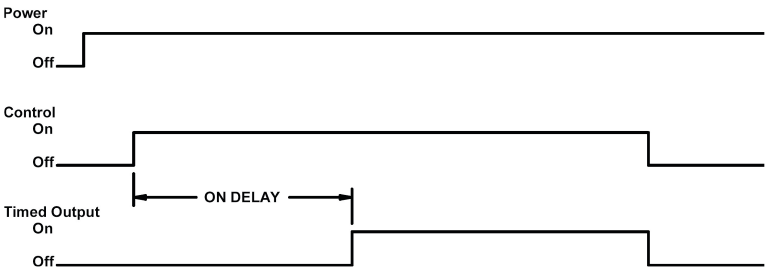
KANSON ELECTRONICS, INC.

Fast cycle rate timer available in four timing functions.

Features:

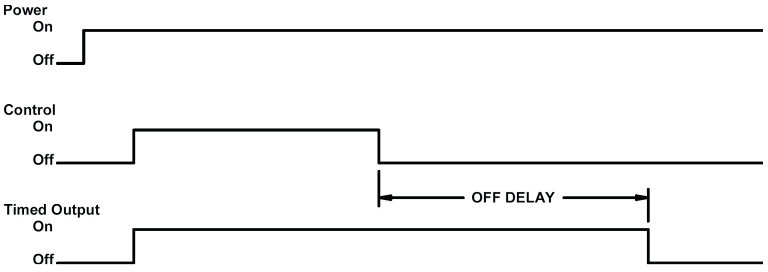
- Timing control contacts independent of unit input power.
- Time ranges from 0.06 to 500 seconds.
- 120 VAC input.
- 10 amp relay output.
- Remote adjust capability.
- LED indicating timing

TIMING



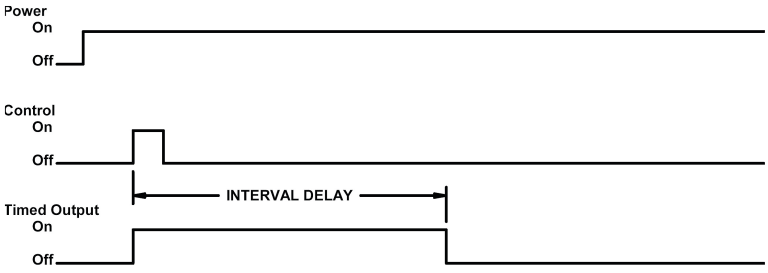
ON DELAY

- Control is independent of unit power.
- When control turns on, delay time elapses before output turns on.
- The output remains on until the unit is reset either by removing power or control.



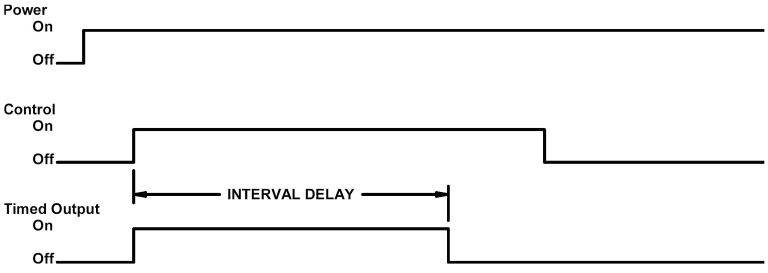
OFF DELAY

- Control is independent of unit power.
- When control turns on, the output turns on.
- When control turns off, the delay starts and output turns off after time elapses.



PULSE INTERVAL

- Control is independent of unit power.
- When control turns on, the output turns on. Output remains on while delay time elapses.
- Turning control on and off during delay time has no effect on the output or timing.



INTERVAL

- Control is independent of unit power.
- When control turns on, output turns on and delay time elapses before output returns to normal.
- If control changes during the delay time period, the output turns off and the delay time will reset.

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INDUSTRIAL SOLID STATE TIMER

MODEL 1013 BASE MOUNT

KANSON ELECTRONICS, INC.

SPECIFICATIONS

INPUT

VOLTAGE: 120VAC
FREQUENCY: 50/60Hz
TOLERANCE (VOLTAGE): ±15% of nominal
POWER CONSUMPTION: 10VA maximum
TRANSIENT PROTECTION: Isolation transformer

OUTPUT

TYPE: Electromechanical relay
RATING: 10A @ 240VAC maximum

TIMING

AVAILABLE TYPES: ON Delay, OFF Delay, Pulse Interval, Interval
REPEAT ACCURACY: ±1% of setting
RESET TIME: 50 msec minimum
INDICATION: LED - On when timing.
TIMING RAMP: 0.06 sec. minimum time - 100kΩ/sec.,
0.5 sec. minimum time - 10kΩ/sec.
TIME RANGE: 0.06 to 500 seconds in 12 ranges
RANGE TOLERANCE: ≤10% of setting
CONTROL: Isolated contact closure
CONTROL TERMINALS: E-F
VOLTAGE PRESENT AT CONTROL TERMINALS: 24VDC min./40VDC max.

PHYSICAL

OPERATING TEMP: 0° to 50° C (32° to 120° F)
TIMING VARIATION VS. TEMP: ±5% maximum
MOUNTING: Base mount
TERMINATION: Terminal blocks on face of timer
HOUSING: Metal

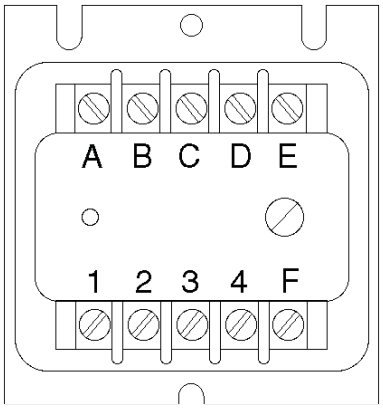
WIRING

OUTPUT B, B1, B2

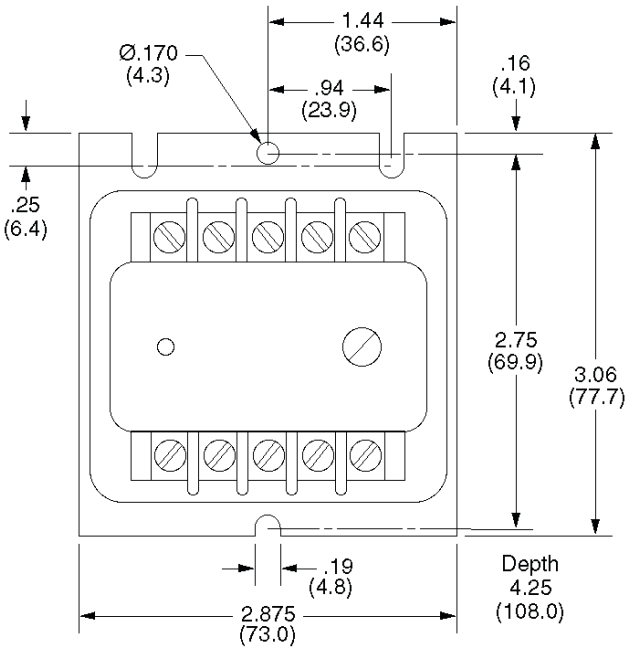
A-B Voltage Input
(constant)
C-D Remote Adjust
(jumper not used)
E-F Control
(starts timing function)
1-2 N.O. timed
(except B2, N.C.)
3-4 N.O. timed
(except B1, N.O.)

Caution: Never apply voltage to terminals C-D-E-F

WIRING TERMINAL LOCATION



DIMENSIONS INCH (MM)



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ORDERING DATA

ORDERING CODE 1013 - 1 - A - 2 - B

BASIC MODEL NUMBER
1013

INPUT VOLTAGE

1	120 VAC

TIME RANGE (secs)

A	0.06 - 0.10
B	0.06 - 0.25
C	0.06 - 0.50
D	0.06 - 1.0
E	0.06 - 2.5
F	0.06 - 5.0
G	0.06 - 10.0
H	0.06 - 25.0
J	0.5 - 50.0
K	0.5 - 100
L	0.5 - 250
M	0.5 - 500
W	Factory fixed (within 5% of customer specified time)

TIMING FUNCTION

1	ON Delay
2	OFF Delay
4	Pulse Interval
5	Interval

OUTPUT

B	Relay DPDT

APPLICABLE ACCESSORIES

See accesory section for details

Potentiometers	RP-201 thru RP-210
Reference dial	RP-216

KANSON ELECTRONICS, INC.

INDUSTRIAL SOLID STATE TIMER

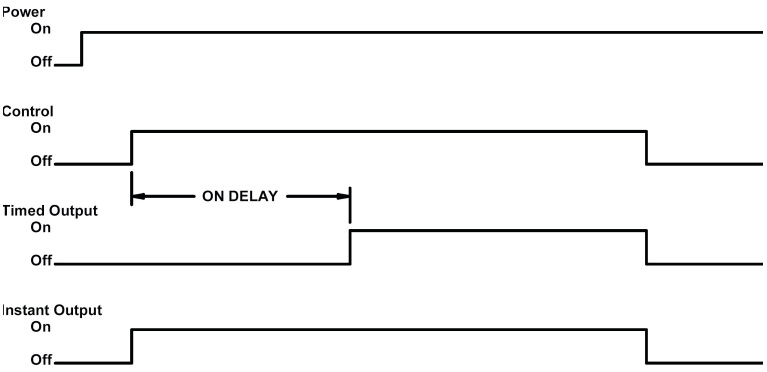
MODEL 1014 BASE MOUNT

Instant contacts energize with application of control signal while timed contacts follow timing function.

Features:

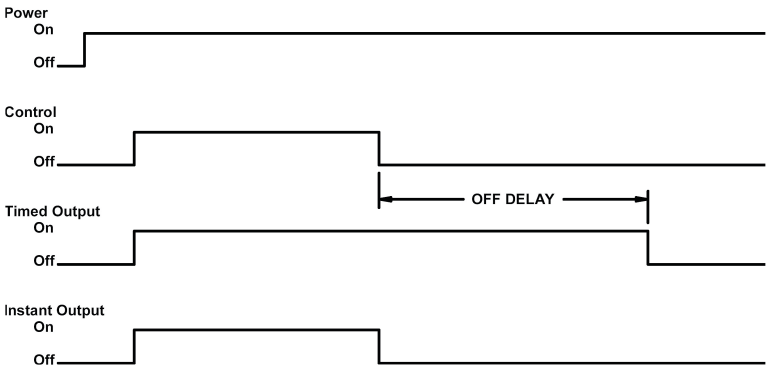
- Control compatible with AC proximity sensors.
- Control independant of input power.
- Time ranges from 0.06 to 500 seconds.
- 120 VAC input.
- 10 amp relay output.
- Remote adjust capability.
- Timing indicating LED.

TIMING



ON DELAY

- Control is independent of unit power.
- When control turns on, delay time elapses before timed output turns on.
- The timed output remains on until the unit is reset either by removing power or control.
- Instant output directly follows control input.



OFF DELAY

- Control is independent of unit power.
- When control turns on, timed output turns on.
- When control turns off, the delay starts and timed output turns off after delay elapses.
- Instant output directly follows control input.

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INDUSTRIAL SOLID STATE TIMER

MODEL 1014 BASE MOUNT

KANSON ELECTRONICS, INC.

SPECIFICATIONS

INPUT

VOLTAGE:	120VAC
FREQUENCY:	50/60Hz
TOLERANCE (VOLTAGE):	±15% of nominal
POWER CONSUMPTION:	10VA maximum
TRANSIENT PROTECTION:	Isolation transformer

OUTPUT

TYPE:	Two electromechanical relays
RATING:	10A @ 240VAC maximum

TIMING

AVAILABLE TYPES:	ON Delay, OFF Delay
REPEAT ACCURACY:	±1% of setting
RESET TIME:	50 msec minimum
INDICATION:	LED - On when timing.
TIMING RAMP:	0.06 sec. minimum time - 100kΩ/sec., 0.5 sec. minimum time - 10kΩ/sec.
TIME RANGE:	0.06 to 500 seconds in 12 ranges
RANGE TOLERANCE:	≤10% of setting
CONTROL:	Isolated contact closure or AC proximity sensor.
CONTROL TERMINALS:	A-C

VOLTAGE PRESENT AT CONTROL TERMINALS: Same as input voltage.

PHYSICAL

OPERATING TEMP:	0° to 50° C (32° to 120° F)
TIMING VARIATION VS. TEMP:	±5% maximum
MOUNTING:	Base mount
TERMINATION:	Terminal blocks on face of timer
HOUSING:	Metal

WIRING

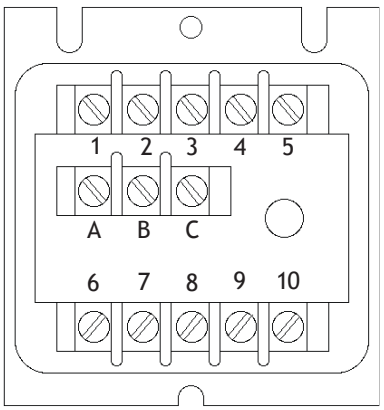
OUTPUT A

A-B	Voltage Input (constant)
A-C	Control (starts timing function)
1-2	Remote Adjust (jumper not used)
3-4	N.O. instant
4-5	N.C. instant
6-7	N.O. timed
7-8	N.C. timed
9-10	N.O. timed

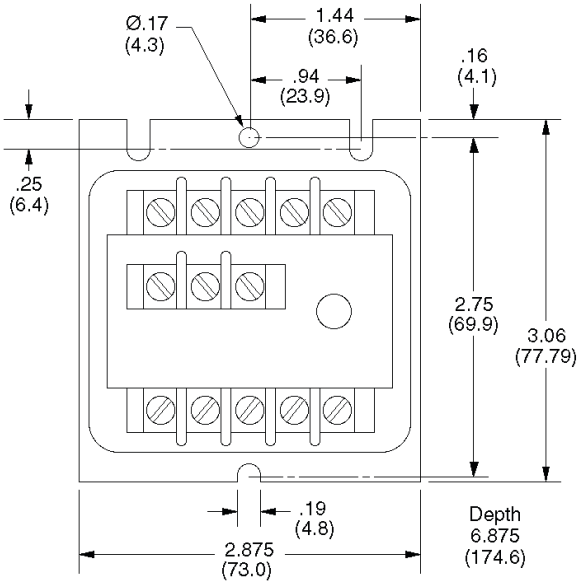
OUTPUT B

A-B	Voltage Input (constant)
A-C	Control (starts timing function)
1-2	N.O. instant
2-3	N.C. instant
4-5	N.O. instant
6-7	N.O. timed
7-8	N.C. timed
9-10	N.O. timed

WIRING TERMINAL LOCATION



DIMENSIONS INCH (MM)



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INDUSTRIAL SOLID STATE TIMER

MODEL 1014 BASE MOUNT

ORDERING DATA

ORDERING CODE 1014 - 1 - G - 2 - B

BASIC MODEL NUMBER
1014

INPUT VOLTAGE

1	120 VAC

TIME RANGE (secs)

A	0.06 - 0.10
B	0.06 - 0.25
C	0.06 - 0.50
D	0.06 - 1.0
E	0.06 - 2.5
F	0.06 - 5.0
G	0.06 - 10.0
H	0.06 - 25.0
J	0.5 - 50.0
K	0.5 - 100
L	0.5 - 250
M	0.5 - 500
W	Factory fixed (within 5% of customer specified time)

TIMING FUNCTION

1	ON Delay
2	OFF Delay

OUTPUT

A	Instant Relay 1 SPDT Timed Relay 1 SPDT, 1 N.O.
B	Instant Relay 1 SPDT, 1 N.O. Timed Relay 1 SPDT, 1 N.O.

APPLICABLE ACCESSORIES

See accesory section for details

Potentiometers	RP-201 thru RP-210
Reference dial	RP-216
Locking attachment	RP-217

KANSON ELECTRONICS, INC.

INDUSTRIAL SOLID STATE TIMER

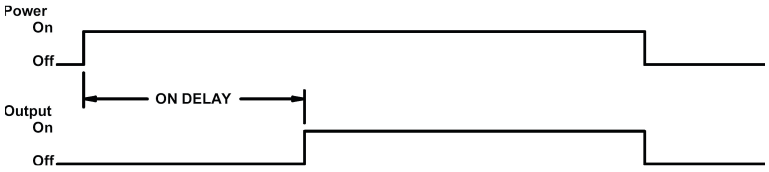
1017SP7 BASE MOUNT

ON Delay timer for electric utility applications.

Features:

- Input power initiates the timing sequence.
- High voltage DC switching capablity.
- Equipped with transient voltage protection.
- Metal housing to maximize noise immunity.
- Time ranges from 1.5 cycles (60Hz) to 300 seconds.

TIMING



ON DELAY

- Control is affected with power application.
- When power turns on, delay time elapses before output turns on.
- The output remains on until the unit is reset by removing power.

SPECIFICATIONS

INPUT

VOLTAGE:	24VAC/DC, 48VAC/DC, 120VAC/125VDC, 240VAC/250VDC
TOLERANCE (VOLTAGE):	±15% of nominal, ±10% for 24V
POWER CONSUMPTION:	16W maximum
TRANSIENT PROTECTION:	TVS Diode

OUTPUT

TYPE:	Electromechanical relay
RATING:	3A @ 150VDC maximum, 10A @ 240VAC 80% PF maximum

TIMING

AVAILABLE TYPES:	ON Delay
REPEAT ACCURACY:	±1% of setting
RESET TIME:	50 msec minimum
TIME RANGE:	1.5 cycles (60Hz) to 300 sec in 8 ranges
RANGE TOLERANCE:	≤10% of setting

PHYSICAL

OPERATING TEMP:	-40° to 65° C (-72° to 117° F)
TIMING VARIATION VS. TEMP:	±5% maximum
MOUNTING:	Base Mount
TERMINATION:	Terminal blocks on face of timer
HOUSING:	Metal
HI-POT:	1500V terminals to case, 1200V between open contacts

800-233-9354 or 931-796-3050 / Fax: 931-796-3956 / Web: http://www.issc-kanson.com

INDUSTRIAL SOLID STATE TIMER

1017SP7 BASE MOUNT

KANSON ELECTRONICS, INC.

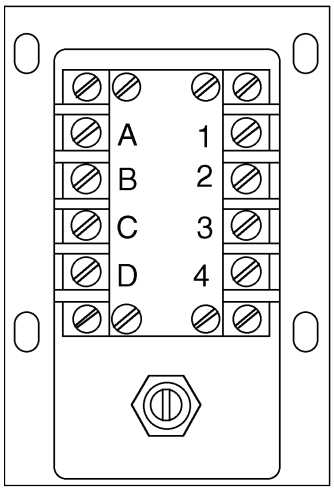
WIRING

OUTPUT A
A-B Voltage Input (control)
1-2 N.C. timed(1 positive)
3-4 N.O. timed(4 positive)

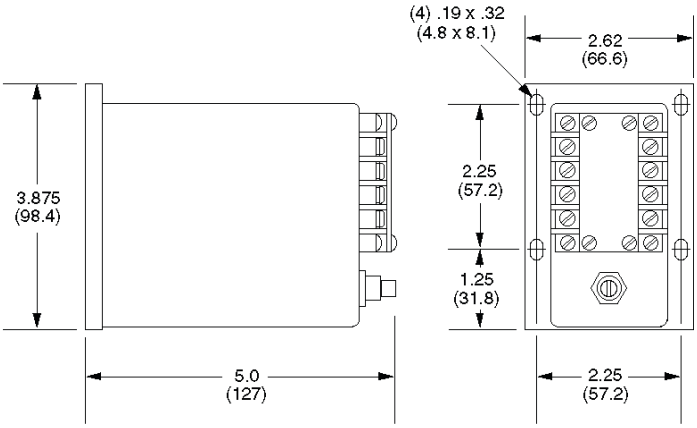
OUTPUT B
A-B Voltage Input (control)
2-1 N.C. timed(2 positive)
2-2 N.O. timed(2 positive)
D-4 N.C. timed(D positive)
D-C N.O. timed(D positive)

In DC applications indicated polarity provides optimum arc suppression.

WIRING TERMINAL LOCATION



DIMENSIONS INCH (MM)



ORDERING DATA

ORDERING CODE 1017SP7 - B - 9 - B

BASIC MODEL NUMBER
1017SP7

INPUT VOLTAGE

D	24 V AC/DC
A	48 V AC/DC
B	120 VAC/125 VDC
C	240 VAC/250VDC

TIME RANGE (secs)

1	1.5 - 30 cycles (60Hz)
2	1.5 - 45 cycles (60Hz)
3	1.5 - 60 cycles (60Hz)
4	1.5 - 120 cycles (60Hz)
7	0.5 - 30 seconds
8	0.5 - 60 seconds
9	0.5 - 120 seconds
10	0.5 - 300 seconds

OUTPUT

A	Relay 1 N.O. & 1 N.C.
B	Relay DPDT

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INDUSTRIAL SOLID STATE TIMER

MODEL 1018 PLUG-IN

KANSON ELECTRONICS, INC.

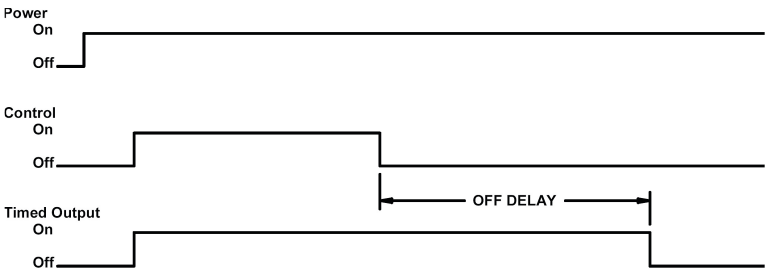
Reliable plug-in timer available in three timing functions.

Features:

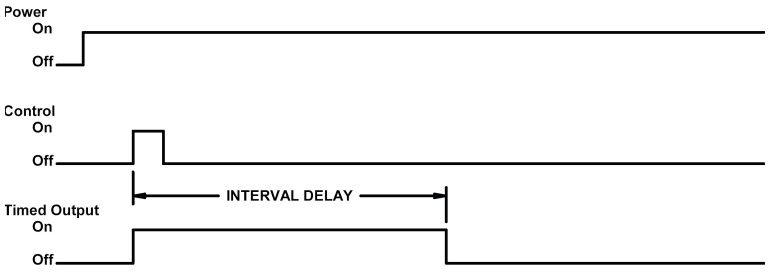
- Time ranges from 0.06 to 1000 sec.
- 120 or 24 V AC/DC input.
- 10 amp relay output.
- Remote adjustable (only output 2).

UL File No. E50957

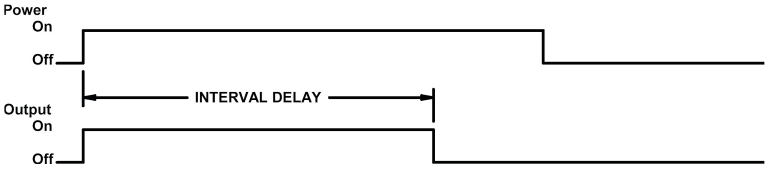
TIMING



OFF DELAY
- Control is independent of unit power.
- When control turns on, the output turns on.
- When control turns off, the delay starts and output turns off after time elapses.



PULSE INTERVAL
- Control is independent of unit power.
- When control turns on, the output turns on. Output remains on while delay time elapses.
- Turning control on and off during delay time has no effect on the output or timing.



INTERVAL
- Control is affected with power application.
- When power is applied, output turns on and remains on till delay time is elapsed.

SPECIFICATIONS

INPUT

VOLTAGE:	120VAC/DC, 24VAC/DC
FREQUENCY:	50/60Hz or DC
TOLERANCE (VOLTAGE):	±10% of nominal
POWER CONSUMPTION:	3VA maximum
TRANSIENT PROTECTION:	MOV

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SPECIFICATIONS CON'T

OUTPUT

TYPE: Electromechanical relay
RATING: 10A @ 240VAC

TIMING

AVAILABLE TYPES: OFF Delay, Pulse Interval*, Interval
* Standard unit shipped as an OFF Delay. Remove jumper clip (see dimensions) for Pulse Interval.
REPEAT ACCURACY: ±1% of setting or 8 msecs, whichever is greater
CONTROL: Isolated contact closure
CONTROL TERMINALS: 5-6 (Standard), 2-7 (Option 13)
VOLTAGE PRESENT AT CONTROL TERMINALS:
70 VDC (120VAC/DC - Standard)
30VDC (24VAC - Standard), 24VDC (24VDC - Standard)
Same as input voltage (Option 13)
RESET TIME: 50 msec minimum - Standard only
100 msec minimum - Option 13
RANGE TOLERANCE: ≤30% of setting
INDICATE TIME: 5 msec minimum - Standard only
INDICATION: LED - On when timing
TIMING RAMP: 0.06 sec minimum time - 1MΩ/sec
0.5 sec minimum time - 100kΩ/sec
5 sec minimum time - 10kΩ/sec

PHYSICAL

OPERATING TEMP: 0° to 50° C (32° to 120° F)
TIMING VARIATION VS. TEMP: ±5% maximum or 8 msec, whichever is greater (up to 500 seconds)
MOUNTING: Plug-in
TERMINATION: 8 or 11-pin socket
HOUSING: Plastic

WIRING

OUTPUT 1
2-10 Voltage Input (constant)
1-3 N.O. timed
1-4 N.C. timed
11-9 N.O. timed
11-8 N.C. timed
5-6 Control
7 Not used

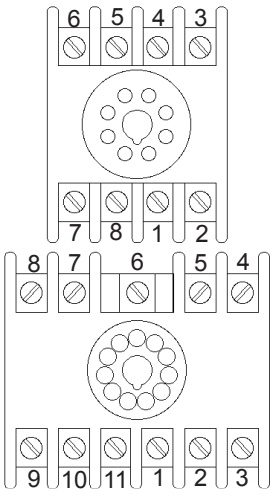
Caution: Never apply voltage to 5-6

OUTPUT 2
2-10 Voltage Input (constant)
1-3 N.O. timed
1-4 N.C. timed
8-9 Remote adjust
5-6 Control
7-11 Not used

Caution: Never apply voltage to 5-6-8-9

OPTION 13 (Output 1 only)
Maintained Interval
1-4 N.C. timed
2-7 Voltage Input (control)
8-5 N.C. timed
8-6 N.O. timed

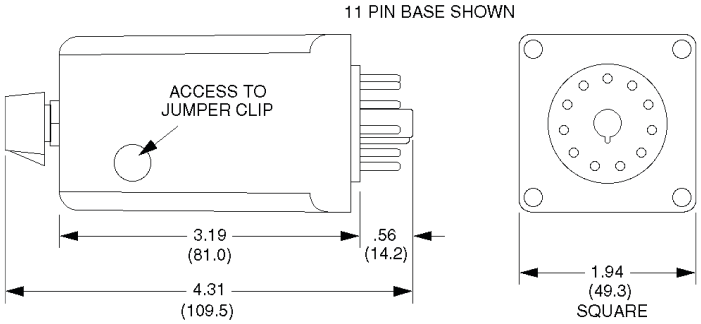
WIRING TERMINAL LOCATION



INDUSTRIAL SOLID STATE TIMER — MODEL 1018 PLUG-IN

KANSON ELECTRONICS, INC.

DIMENSIONS INCH (MM)



ORDERING DATA

ORDERING CODE 1018 - M - 1 ----

BASIC MODEL NUMBER
1018

TIME RANGE (secs)

A	0.06 - 1.0	J	5 - 1000
B	0.5 - 10.0	L	0.06 - 2.5
C	5 - 100	M	0.5 - 25.0
D	5 - 250	N	0.5 - 50.0
E	5 - 500	R	0.06 - 5.0

OUTPUT

1	Relay DPDT (11 pin plug standard, 8 pin plug for OP13)
2	Relay SPDT with remote adjust (11 pin plug)

OPTION (If desired)

OP4	24 VDC input
OP13	Interval timing function - Only available with 8 pin plug and output 1.

APPLICABLE ACCESSORIES

See accesory section for details

Potentiometers	RP-207 thru RP-210
Reference dial	RP-216
Locking attachment	RP-217
8 pin socket	RP-302
11 pin socket	RP-303
Hold down clip	RP-305

INDUSTRIAL SOLID STATE TIMER

MODEL 1019 PLUG-IN

KANSON ELECTRONICS, INC.

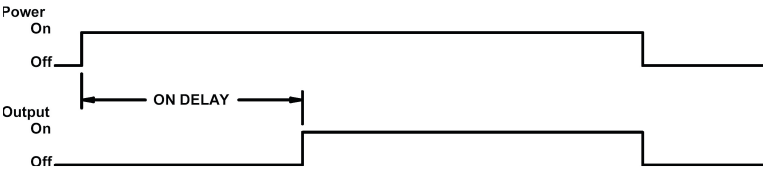
Economical timer plugs into 11 position relay socket.

Features:

- Power control ON delay.
- Time ranges from 0.02 to 500 seconds.
- 120 V AC/DC input.
- 10 amp relay output.
- Remote adjustable (only output 3).

UL File No. E50957

TIMING



ON DELAY

- Control is affected with power application.
- When power turns on, delay time elapses before timed output turns on.
- The timed output remains on until the unit is reset by removing power.

SPECIFICATIONS

INPUT

VOLTAGE:	120VAC/DC
FREQUENCY:	50/60Hz or DC
TOLERANCE (VOLTAGE):	±10% of nominal
POWER CONSUMPTION:	3VA maximum
TRANSIENT PROTECTION:	MOV

OUTPUT

TYPE:	Electromechanical relay
RATING:	10A @ 240VAC

TIMING

AVAILABLE TYPES:	ON Delay
REPEAT ACCURACY:	±1% of setting
CONTROL:	Application of power initiates timing cycle.
CONTROL TERMINALS:	A-B

VOLTAGE PRESENT AT CONTROL TERMINALS: Same as input voltage.

RESET TIME:	40 msec minimum
RANGE TOLERANCE:	≤30% of setting
TIMING RAMP:	0.02 sec minimum time - 1MΩ/sec
	0.6 sec minimum time - 100kΩ/sec
	0.5 sec minimum time - 10kΩ/sec

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INDUSTRIAL SOLID STATE TIMER

MODEL 1019 PLUG-IN

KANSON ELECTRONICS, INC.

SPECIFICATIONS

PHYSICAL

OPERATING TEMP: 0° to 50° C (32° to 120° F)
TIMING VARIATION VS. TEMP: ±5% maximum
MOUNTING: Plug-in
TERMINATION: 11-pin blade socket
HOUSING: Plastic

WIRING

OUTPUT 1

A-B	Voltage Input
4-7	N.O. timed
1-7	N.C. timed
6-9	N.O. timed
3-9	N.C. timed
2-5-8	Not used

OUTPUT 3

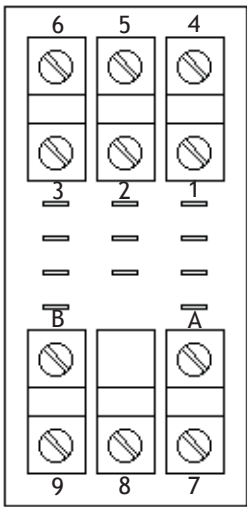
A-B	Voltage Input
4-7	N.O. timed
1-7	N.C. timed
6-9	N.O. timed
3-9	N.C. timed
2-5	Remote adjust (jumper if not used)
8	Not used

Caution: Never apply voltage to 2-5

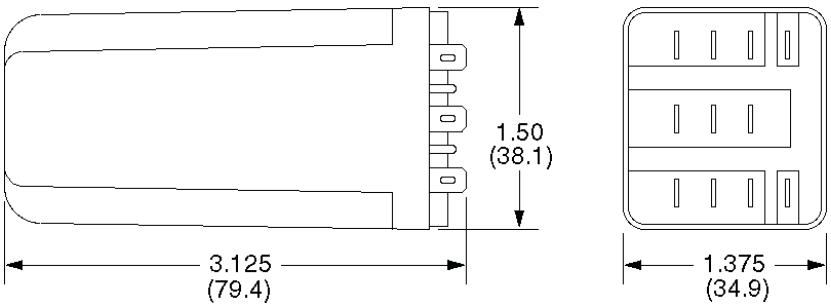
OPTION 4

A-B	Voltage Input
1-7	N.C. timed
4-7	N.O. timed
3-9	N.C. timed
6-9	N.O. timed
2-8	N.C. timed
5-8	N.O. timed

WIRING TERMINAL LOCATION
11-PIN BLADE SOCKET



DIMENSIONS INCH (MM)



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ORDERING DATA

ORDERING CODE 1019 - 1 - 4 - 2

BASIC MODEL NUMBER
1019

TIME RANGE (secs)

1	0.02 - 1.0
5	0.02 - 5.0
10	0.06 - 10.0
50	0.06 - 50.0
100	0.5 - 100
500	0.5 - 500

OUTPUT

1	Relay DPDT
3	Relay DPDT with remote adjust
4	Relay 3PDT

INPUT

1	120 V AC/DC

APPLICABLE ACCESSORIES

See accesory section for details

Potentiometers	RP-207 thru RP-210
Reference dial	RP-216
11 pin socket	RP-304
Hold down clip	RP-306

INDUSTRIAL SOLID STATE TIMER

MODEL 1020 BASE MOUNT

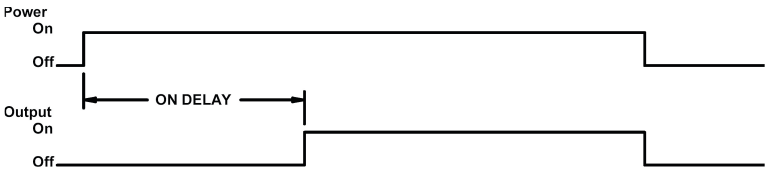
KANSON ELECTRONICS, INC.

ON Delay timer for electric utility motor over-run applications.

Features:

- Input power initiates the timing sequence.
- High voltage DC switching capablity.
- Factory fixed delay from 0.5 sec. to 20 min.
- Reset button and LED indicating energized output
- Equipped with transient voltage protection.
- Metal housing to maximize noise immunity.

TIMING



ON DELAY

- Control is affected with power application.
- When power turns on, delay time elapses before output turns on.
- The output remains on until the unit is reset by removing power or pressing reset button.

SPECIFICATIONS

INPUT

VOLTAGE:	24VAC/DC, 48VAC/DC, 120VAC/125VDC, 240VAC/250VDC
TOLERANCE (VOLTAGE):	±15% of nominal, ±10% for 24V
POWER CONSUMPTION:	16W maximum
TRANSIENT PROTECTION:	TVS Diode

OUTPUT

TYPE:	Electromechanical relay
RATING:	3A @ 150VDC maximum, 10A @ 240VAC 80% PF maximum

TIMING

AVAILABLE TYPES:	ON Delay
REPEAT ACCURACY:	±1%
TIME RANGE:	Factory fixed to customer specifications from 0.5 sec. to 20 min.
RESET TIME:	50 msec minimum
DELAY TOLERANCE:	≤10%

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KANSON ELECTRONICS, INC.

INDUSTRIAL SOLID STATE TIMER

MODEL 1020 BASE MOUNT

SPECIFICATIONS CON'T

PHYSICAL

OPERATING TEMP:	-40° to 65° C (-40° to 149° F)
TIMING VARIATION VS. TEMP:	±5% maximum
MOUNTING:	Base Mount
TERMINATION:	Terminal blocks on face of timer
HOUSING:	Metal
HI-POT:	1500V terminals to case, 1200V between open contacts

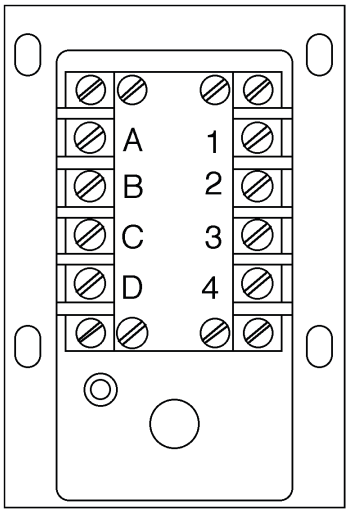
WIRING

OUTPUT B

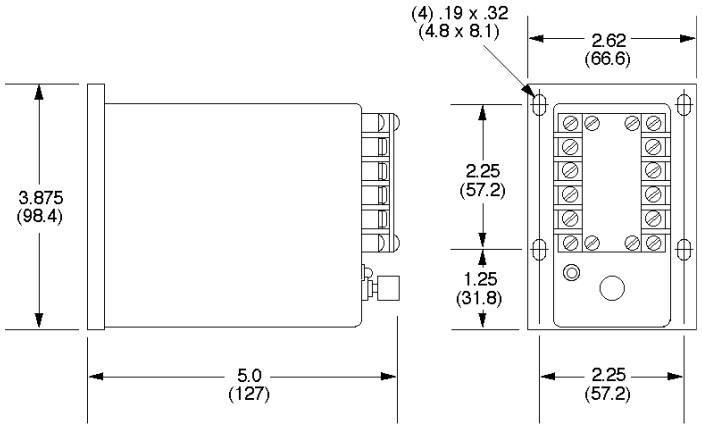
A-B Voltage Input
2-1 N.C. timed (2 positive)
2-3 N.O. timed (2 positive)
D-4 N.C. timed (D positive)
D-C N.O. timed (D positive)

In DC applications, indicated polarity provides optimum arc suppression.

WIRING TERMINAL LOCATION



DIMENSIONS INCH (MM)



ORDERING DATA

ORDERING CODE 1020 - B - W - B

BASIC MODEL NUMBER
1020

INPUT VOLTAGE

D	24 V AC/DC
A	48 V AC/DC
B	120 VAC/125 VDC
C	240 VAC/250VDC

TIME RANGE (secs)

W	Factory fixed (within 10% of customer specified time)

OUTPUT

B	Relay DPDT

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INDUSTRIAL SOLID STATE TIMER

MODEL 1025 BASE MOUNT

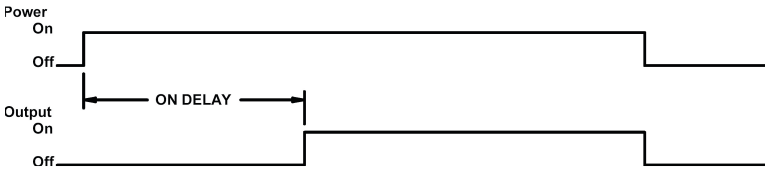
KANSON ELECTRONICS, INC.

ON Delay timer for electric utility motor over-run applications.

Features:

- Input power initiates the timing sequence.
- High voltage DC switching capablity.
- 6PDT relay output.
- Factory fixed delay from 0.5 sec. to 20 min.
- Reset button and LED indicating energized output
- Equipped with transient voltage protection.
- Metal housing to maximize noise immunity.

TIMING



ON DELAY

- Control is affected with power application.
- When power turns on, delay time elapses before output turns on.
- The output remains on until the unit is reset by removing power or pressing reset button.

SPECIFICATIONS

INPUT

VOLTAGE:	48VAC/DC, 120VAC/125VDC, 240VAC/250VDC
TOLERANCE (VOLTAGE):	±15% of nominal
POWER CONSUMPTION:	16W maximum
TRANSIENT PROTECTION:	TVS Diode

OUTPUT

TYPE:	Electromechanical relay
RATING:	7 A @ 240 VAC maximum

TIMING

AVAILABLE TYPES:	ON Delay
REPEAT ACCURACY:	±1%
TIME RANGE:	Factory fixed to customer specifications from 0.5 sec to 20 min.
RESET TIME:	50 msec minimum
DELAY TOLERANCE:	≤10%

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KANSON ELECTRONICS, INC.

INDUSTRIAL SOLID STATE TIMER

MODEL 1025 BASE MOUNT

SPECIFICATIONS CON'T

PHYSICAL

OPERATING TEMP:	-40° to 65° C (-40° to 149° F)
TIMING VARIATION VS. TEMP:	±5% maximum
MOUNTING:	Base Mount
TERMINATION:	Terminal blocks on face of timer
HOUSING:	Metal
HI-POT:	1500V terminals to case, 1000V between open contacts

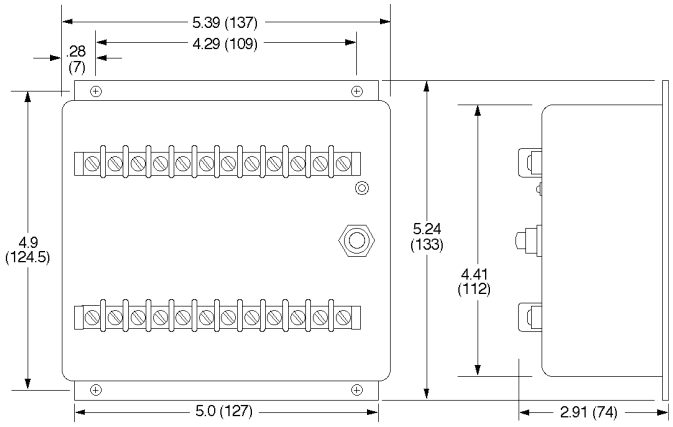
WIRING

OUTPUT C

A-B Voltage Input
2-1 N.C. timed (2 positive)
2-3 N.O. timed (2 positive)
5-4 N.C. timed (5 positive)
5-6 N.O. timed (5 positive)
8-7 N.C. timed (8 positive)
8-9 N.O. timed (8 positive)
11-10 N.C. timed (11 positive)
11-12 N.O. timed (11 positive)
14-13 N.C. timed (14 positive)
14-15 N.O. timed (14 positive)
17-16 N.C. timed (17 positive)
17-18 N.O. timed (17 positive)

In DC applications, indicated polarity provides optimum arc suppression.

DIMENSIONS INCH (MM)



ORDERING DATA

ORDERING CODE 1025 - B - 3 - B

BASIC MODEL NUMBER
1025

INPUT VOLTAGE

D	24 V AC/DC
A	48 V AC/DC
B	120 VAC/125 VDC
C	240 VAC/250VDC

TIME RANGE (secs)

3	Factory fixed (3 minutes) (within 10% of customer specified time)

OUTPUT

C	Relay 6PDT

800-233-9354 or 931-796-3050 / Fax: 931-796-3956 / Web: http://www.issc-kanson.com

INDUSTRIAL SOLID STATE TIMER

MODEL 1026 BASE MOUNT

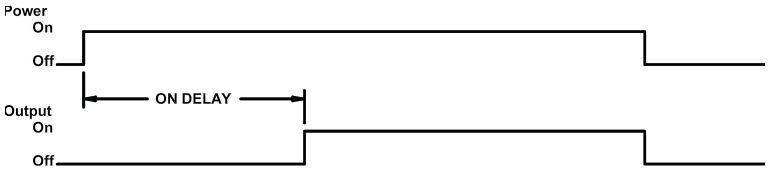
KANSON ELECTRONICS, INC.

ON Delay timer for electric utility applications.

Features:

- Input power initiates the timing sequence.
- High voltage DC switching capablity.
- 6PDT relay output.
- Time ranges from 1.5 cycles (60Hz) to 300 seconds.
- Reset button and LED indicating energized output
- Equipped with transient voltage protection.
- Metal housing to maximize noise immunity.

TIMING



ON DELAY

- Control is affected with power application.
- When power turns on, delay time elapses before output turns on.
- The output remains on until the unit is reset by removing power or pressing reset button.

SPECIFICATIONS

INPUT

VOLTAGE:	48VAC/DC, 120VAC/125VDC, 240VAC/250VDC
TOLERANCE (VOLTAGE):	±15% of nominal
POWER CONSUMPTION:	16W maximum
TRANSIENT PROTECTION:	TVS Diode

OUTPUT

TYPE:	Electromechanical relay
RATING:	7 A @ 250 VAC maximum

TIMING

AVAILABLE TYPES:	ON Delay
REPEAT ACCURACY:	±1% of setting
TIME RANGE:	1.5 cycles (60Hz) to 300 sec in 8 ranges
RESET TIME:	50 msec minimum
RANGE TOLERANCE:	≤10% of setting

PHYSICAL

OPERATING TEMP:	-40° to 65° C (-40° to 149° F)
TIMING VARIATION VS. TEMP:	±5% maximum
MOUNTING:	Base Mount
TERMINATION:	Terminal blocks on face of timer
HOUSING:	Metal
HI-POT:	1500V terminals to case, 1000V between open contacts

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KANSON ELECTRONICS, INC.

INDUSTRIAL SOLID STATE TIMER

MODEL 1026 BASE MOUNT

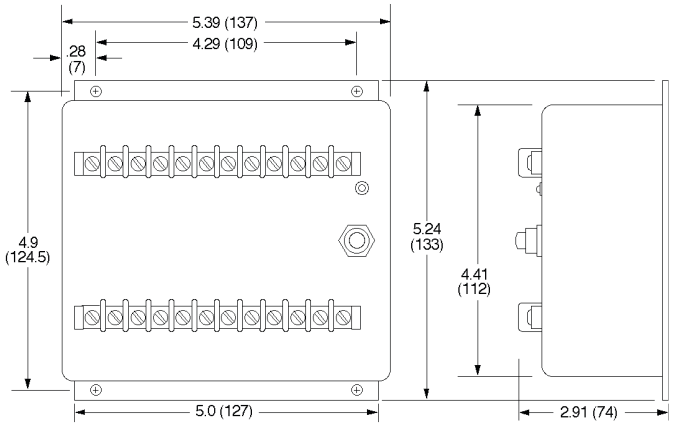
WIRING

OUTPUT C

A-B Voltage Input
2-1 N.C. timed (2 positive)
2-3 N.O. timed (2 positive)
5-4 N.C. timed (5 positive)
5-6 N.O. timed (5 positive)
8-7 N.C. timed (8 positive)
8-9 N.O. timed (8 positive)
11-10 N.C. timed (11 positive)
11-12 N.O. timed (11 positive)
14-13 N.C. timed (14 positive)
14-15 N.O. timed (14 positive)
17-16 N.C. timed (17 positive)
17-18 N.O. timed (17 positive)

In DC applications, indicated polarity provides optimum arc suppression.

DIMENSIONS INCH (MM)



ORDERING DATA

ORDERING CODE 1026 - B - 4 - B

BASIC MODEL NUMBER
1026

INPUT VOLTAGE

A	48 V AC/DC
B	120 VAC/125 VDC
C	240 VAC/250VDC

TIME RANGE (secs)

1	1.5 - 30 cycles (60Hz)
2	1.5 - 45 cycles (60Hz)
3	1.5 - 60 cycles (60Hz)
4	1.5 - 120 cycles (60Hz)
7	0.5 - 30 seconds
8	0.5 - 60 seconds
9	0.5 - 120 seconds
10	0.5 - 300 seconds

OUTPUT

C	Relay 6PDT

800-233-9354 or 931-796-3050 / Fax: 931-796-3956 / Web: http://www.issc-kanson.com

INDUSTRIAL SOLID STATE TIMER

MODEL 1030 BASE MOUNT

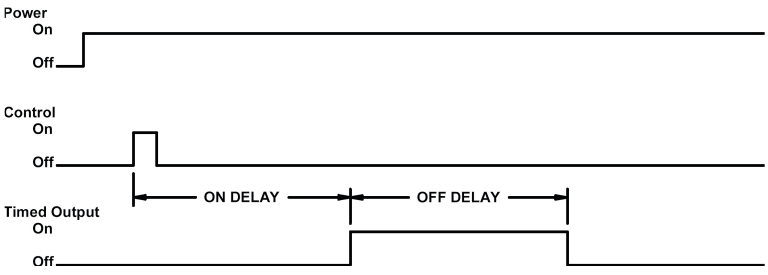
KANSON ELECTRONICS, INC.

Dual time control timer available in three timing functions.

Features:

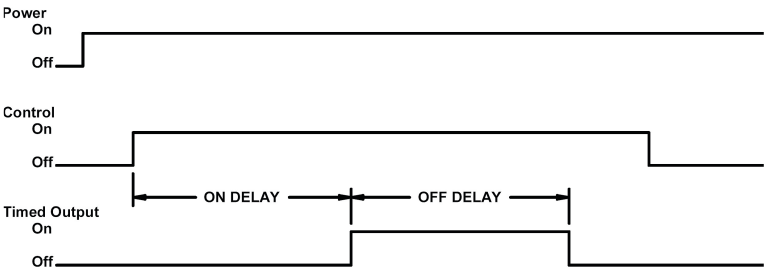
- External plug-in DPDT relay.
- Timing control contacts independent of unit input power.
- Time ranges from 0.06 to 500 seconds.
- 120, 230 or 24 VAC input.
- 10 amp relay output.
- Remote adjust capability.
- Output energized indication LED

TIMING



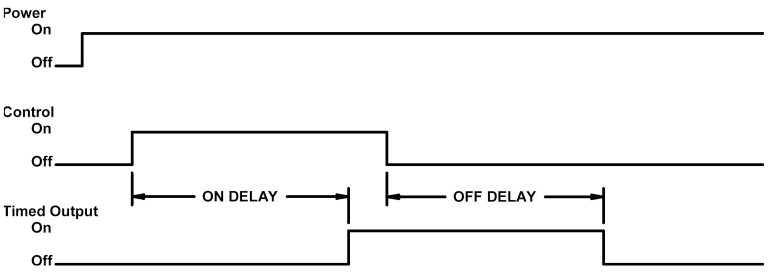
PULSE ONE CYCLE

- Control is independent of unit power.
- When control turns on, OFF time elapses before output turns on.
- The ON time then starts and output turns back off once time has elapsed.
- Turning control on and off during delay time has no effect on the output or timing.



ONE CYCLE

- Control is independent of unit power.
- When control turns on, OFF time elapses before output turns on.
- The ON time then starts and output turns back off once time has elapsed.
- When control turns off; unit resets.



ON DELAY / OFF DELAY

- Control is independent of unit power.
- When control turns on, OFF time elapses before output turns on.
- When the control turns off, the ON time starts and output turns off after time elapses.
- If control turns off while output is off; unit resets immediately.

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KANSON ELECTRONICS, INC.

INDUSTRIAL SOLID STATE TIMER

MODEL 1030 BASE MOUNT

SPECIFICATIONS

INPUT

VOLTAGE: 120VAC, 24VAC, 240VAC
FREQUENCY: 50/60Hz
TOLERANCE (VOLTAGE): ±15% of nominal
POWER CONSUMPTION: 10VA maximum
TRANSIENT PROTECTION: Isolated transformer (120VAC and 240VAC only)

OUTPUT

TYPE: Electromechanical relay
RATING: 10A @ 240VAC maximum

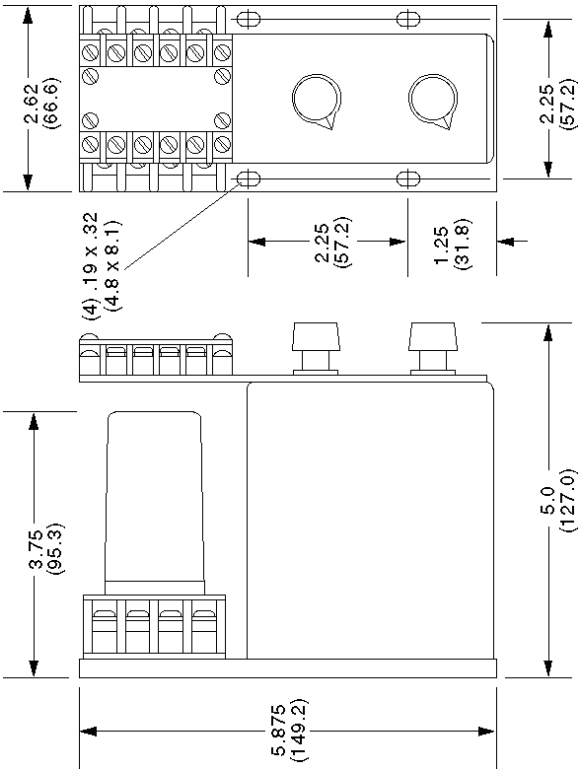
TIMING

AVAILABLE TYPES: Pulse One Cycle, One Cycle, ON Delay / OFF Delay
INDICATION: LED - On when output energized
REPEAT ACCURACY: ±1% of setting
TIME RANGE: 0.06 to 500 seconds in 9 ranges
TIME RAMP: 0.06 sed. min. time - 100kΩ/sec., 0.5 sec. min. time - 10kΩ/sec.
RESET TIME: 50 msec minimum
RANGE TOLERANCE: ≤10% of setting
CONTROL: Isolated contact closure
CONTROL TERMINALS: E-F
VOLTAGE PRESENT AT CONTROL TERMINALS: 24VDC minimum, 40VDC maximum

PHYSICAL

OPERATING TEMP: 0° to 55° C (32° to 131° F)
TIMING VARIATION VS. TEMP: ±5% maximum
MOUNTING: Base Mount
TERMINATION: Terminal blocks on face of timer
HOUSING: Metal

DIMENSIONS INCH (MM)

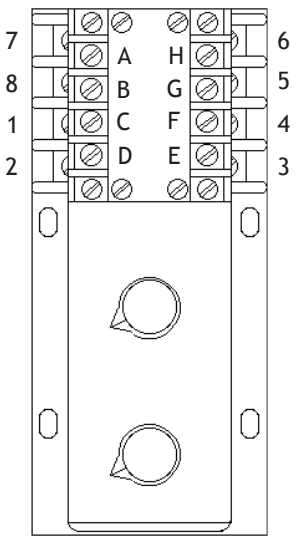


WIRING

OUTPUT B
A-B Voltage Input (contant)
C-D Remote adjust for OFF time, (jumper if not used)
E-F Control (starts timing function)
G-H Remote adjust for ON time, (jumper if not used)
1-3 N.O. timed
1-4 N.C. timed
5-8 N.C. timed
6-8 N.O. timed

Caution: Nevery apply voltage to C-D-E-F-G-H

WIRING TERMINAL LOCATION



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INDUSTRIAL SOLID STATE TIMER

MODEL 1030 BASE MOUNT

ORDERING DATA

ORDERING CODE **1030 - 1 - E - E - 6 - B**

BASIC MODEL NUMBER

1030

INPUT VOLTAGE

1	120 VAC
2	240 VAC
3	24 VAC

TIME RANGE (secs) Off time / On time

ON and OFF delay time ranges must have the same minimum time.

D	0.06 - 1.0
E	0.06 - 2.5
F	0.06 - 5.0
G	0.06 - 10.0
H	0.06 - 25.0
J	0.5 - 50.0
K	0.5 - 100
L	0.5 - 250
M	0.5 - 500

TIMING FUNCTION

6	Pulse One Cycle
7	One Cycle
8	ON Delay / OFF Delay

OUTPUT

B	Relay DPDT

APPLICABLE ACCESSORIES

See accesory section for details

Output modules	RP-101
Potentiometers	RP-201 thru RP-210
Reference dial	RP-216
Locking attachment	RP-217

INDUSTRIAL SOLID STATE TIMER

MODEL 1032 PLUG-IN

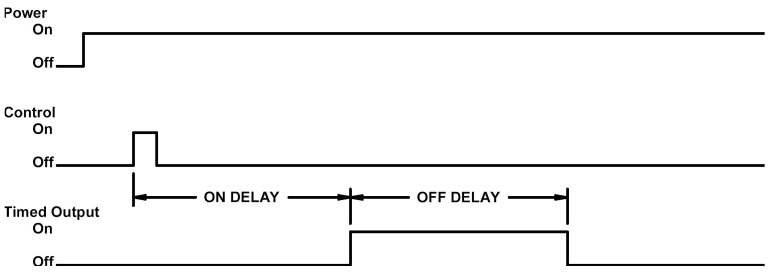
KANSON ELECTRONICS, INC.

Dual time control timer available in three timing functions.

Features:

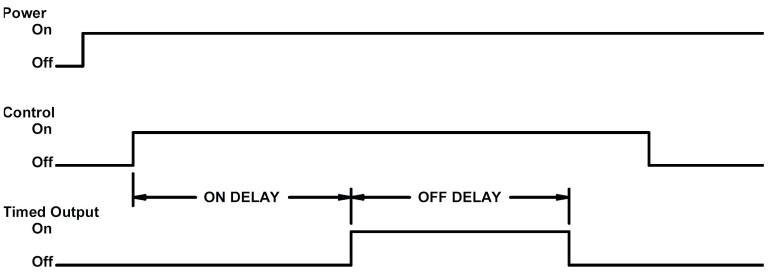
- 12 plug-in base - socket included.
- Timing control contacts independent of unit input power.
- Time ranges from 0.06 to 500 seconds.
- 120 or 24 VAC input.
- 10 amp relay output.
- Remote adjust capability (Off delay only).
- Output energized indication LED

TIMING



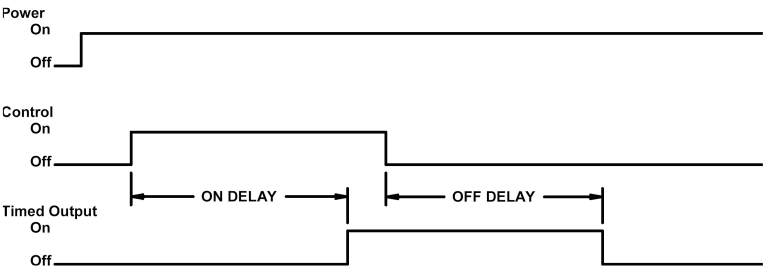
PULSE ONE CYCLE

- Control is independent of unit power.
- When control turns on, OFF time elapses before output turns on.
- The ON time then starts and output turns back off once time has elapsed.
- Turning control on and off during delay time has no effect on the output or timing.



ONE CYCLE

- Control is independent of unit power.
- When control turns on, OFF time elapses before output turns on.
- The ON time then starts and output turns back off once time has elapsed.
- When control turns off; unit resets.



ON DELAY / OFF DELAY

- Control is independent of unit power.
- When control turns on, OFF time elapses before output turns on.
- When the control turns off, the ON time starts and output turns off after time elapses.
- If control turns off while output Is on; unit resets immediately.

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INDUSTRIAL SOLID STATE TIMER

MODEL 1032 PLUG-IN

KANSON ELECTRONICS, INC.

SPECIFICATIONS

INPUT

VOLTAGE: 120VAC/DC, 24VAC/DC
FREQUENCY: 50/60Hz
TOLERANCE (VOLTAGE): ±15% of nominal
POWER CONSUMPTION: 10VA maximum
TRANSIENT PROTECTION: Isolated transformer (120VAC only)

OUTPUT

TYPE: Electromechanical relay
MECHANICAL LIFE: 10,000,000 operations
ELECTRICAL LIFE: 300,000 operations
RATING: 10A @ 240VAC maximum

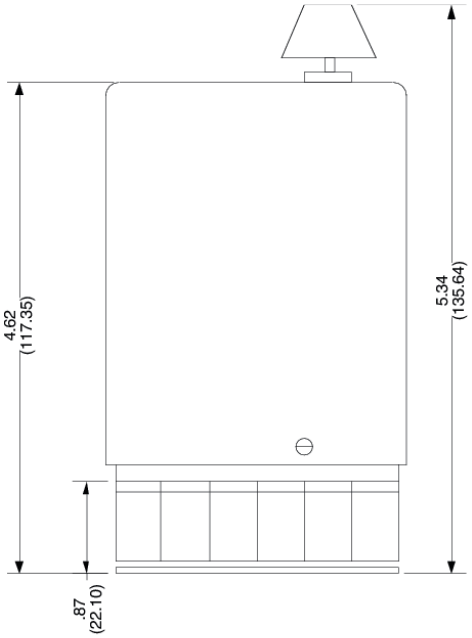
TIMING

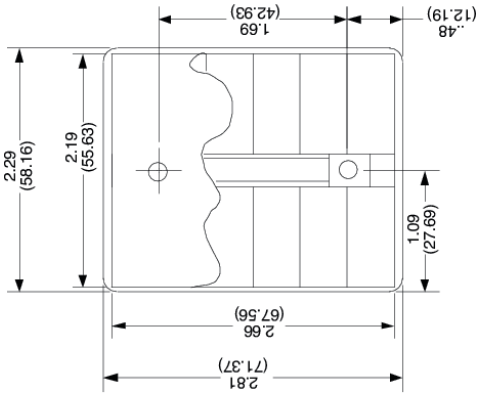
AVAILABLE TYPES: Pulse One Cycle, One Cycle, ON Delay / OFF Delay
INDICATION: LED - On when output energized
REPEAT ACCURACY: ±1% of setting
TIME RANGE: 0.06 to 500 seconds in 9 ranges
TIME RAMP: 0.06 sed. min. time - 100kΩ/sec.,
0.5 sec. min. time - 10kΩ/sec.
RESET TIME: 50 msec minimum
RANGE TOLERANCE: ≤10% of setting
CONTROL: Isolated contact closure
CONTROL TERMINALS: 5-6
VOLTAGE PRESENT AT CONTROL TERMINALS: 24VDC min., 40VDC max.

PHYSICAL

OPERATING TEMP: 0° to 55° C (32° to 131° F)
TIMING VARIATION VS. TEMP: ±5% maximum
MOUNTING: Plug-in
TERMINATION: 12-pin socket
HOUSING: Metal

DIMENSIONS INCH (MM)





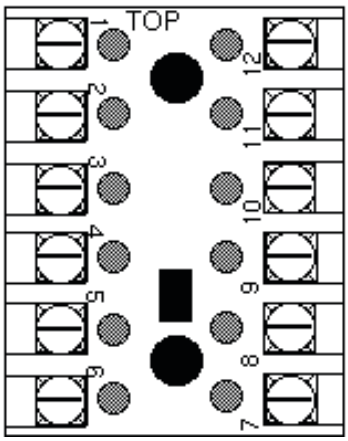
WIRING

OUTPUT B

1-2 Voltage Input (constant)
3-4 Remote Adjust, ON time (jumper not when used)
5-6 Control (starts timing function)
7-8 N.O. timed
8-9 N.O. timed
10-11 N.C. timed
11-12 N.C. timed

Caution: Never apply voltage to terminals 3-4-5-6

WIRING TERMINAL LOCATION
12-PIN SOCKET



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ORDERING DATA

ORDERING CODE **1032 - 1 - H - H - 8 - B**

BASIC MODEL NUMBER

1032

INPUT VOLTAGE

1	120 VAC
2	24 VAC

TIME RANGE (secs) OFF time / ON time

ON and OFF delay time ranges must have the same minimum time.

B	0.06 - 0.25
C	0.06 - 0.50
D	0.06 - 1.0
E	0.06 - 2.5
F	0.06 - 5.0
G	0.06 - 10.0
H	0.06 - 25.0
J	0.5 - 50.0
K	0.5 - 100
L	0.5 - 250
M	0.5 - 500

TIMING FUNCTION

6	Pulse One Cycle
7	One Cycle
8	ON Delay / OFF Delay

OUTPUT

B	Relay DPDT

APPLICABLE ACCESSORIES

See accesory section for details

Potentiometers	RP-201 thru RP-210
Reference dial	RP-216
Locking attachment	RP-217
12 pin socket (included)	RP-301

KANSON ELECTRONICS, INC.

INDUSTRIAL SOLID STATE TIMER

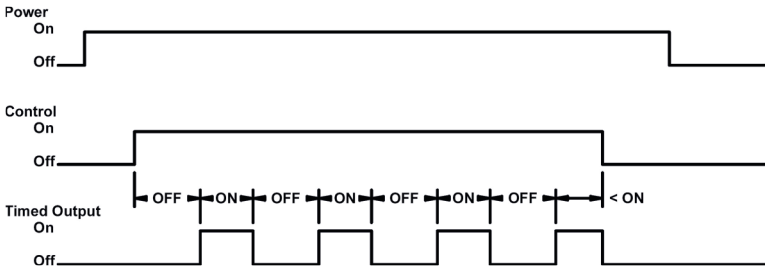
MODEL 1060 BASE MOUNT

Dual time control timer available in two timing functions.

Features:

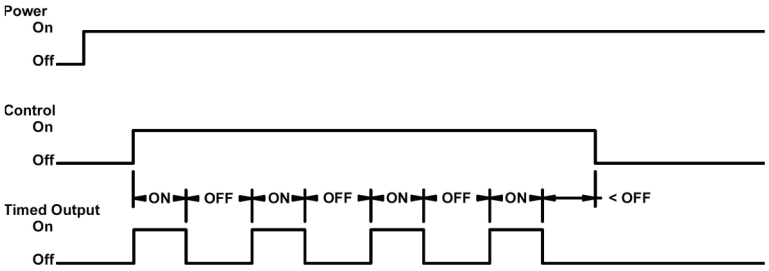
- External plug-in DPDT relay.
- Timing control contacts independent of unit input power.
- Time ranges from 0.06 to 500 seconds.
- 120, 230 or 24 VAC input.
- 10 amp relay output.
- Remote adjust capability.
- Output energized indication LED

TIMING



REPEAT CYCLE START OFF

- Control is independent of unit power.
- When control turns on, the output remains off while OFF time elapses. The output then turns on while ON time elapses.
- This cycle then repeats until power is removed from the unit or control turns off.



REPEAT CYCLE START ON

- Control is independent of unit power.
- When control turns on, the output turns on while ON time elapses. The output then turns back off while OFF time elapses.
- This cycle then repeats until power is removed from the unit or control turns off.

SPECIFICATIONS

INPUT

VOLTAGE:	120VAC
FREQUENCY:	50/60Hz
TOLERANCE (VOLTAGE):	±15% of nominal
POWER CONSUMPTION:	10VA maximum
TRANSIENT PROTECTION:	Isolated transformer

OUTPUT

TYPE:	Electromechanical relay (Solid State available as accessory)
RATING:	10A @ 240VAC maximum

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INDUSTRIAL SOLID STATE TIMER

MODEL 1060 BASE MOUNT

KANSON ELECTRONICS, INC.

SPECIFICATIONS CON'T

TIMING

AVAILABLE TYPES: Repeat Cycle (start ON or start OFF)
INDICATION: LED - On when output energized
REPEAT ACCURACY: ±1% of setting
TIME RANGE: 0.06 to 500 seconds in 9 ranges
TIME RAMP: 0.06 sed. min. time - 100kΩ/sec., 0.5 sec. min. time - 10kΩ/sec.
RESET TIME: 50 msec minimum
RANGE TOLERANCE: ≤10% of setting
CONTROL: Isolated contact closure
CONTROL TERMINALS: E-F
VOLTAGE PRESENT AT CONTROL TERMINALS: 24VDC minimum, 40VDC maximum

PHYSICAL

OPERATING TEMP: 0° to 55° C (32° to 131° F)
TIMING VARIATION VS. TEMP: ±5% maximum
MOUNTING: Base Mount
TERMINATION: Terminal blocks on face of timer
HOUSING: Metal

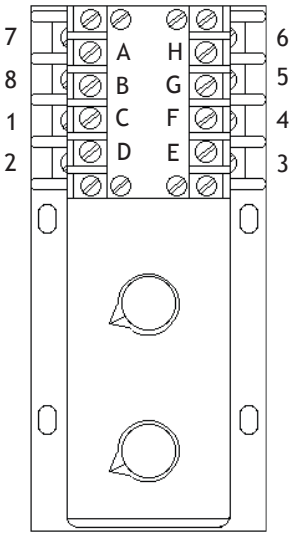
WIRING

OUTPUT B

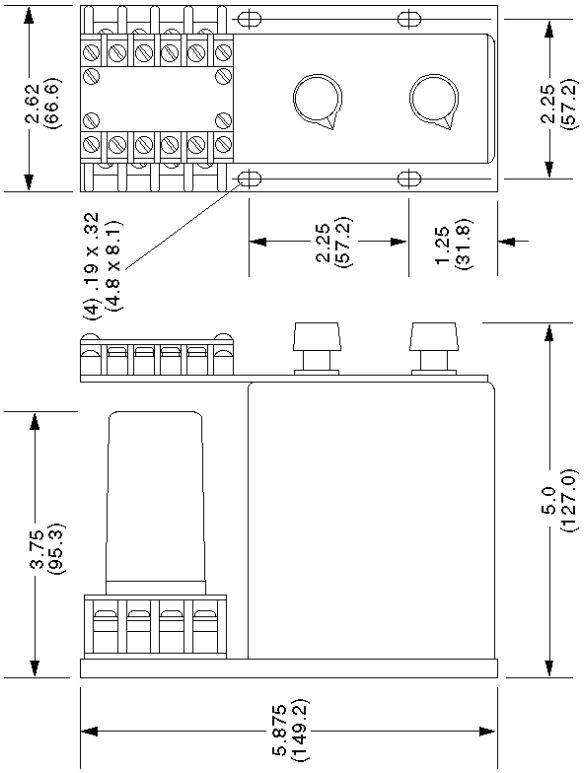
A-B Voltage Input (contant)
C-D Remote adjust for first time period (jumper if not used)
E-F Control (starts timing function)
G-H Remote adjust for second time period (jumper if not used)
1-3 N.O. timed
1-4 N.C. timed
5-8 N.C. timed
6-8 N.O. timed

Caution: Nevery apply voltage to C-D-E-F-G-H

WIRING TERMINAL LOCATION



DIMENSIONS INCH (MM)



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INDUSTRIAL SOLID STATE TIMER

MODEL 1060 BASE MOUNT

ORDERING DATA

ORDERING CODE **1060 - 1 - D - D - 2 - B**

BASIC MODEL NUMBER

1060

INPUT VOLTAGE

1	120 VAC

TIME RANGE (secs)

ON time

OFF time

ON and OFF delay time ranges must have the same minimum time.

D	0.06 - 1.0
E	0.06 - 2.5
F	0.06 - 5.0
G	0.06 - 10.0
H	0.06 - 25.0
J	0.5 - 50.0
K	0.5 - 100
L	0.5 - 250
M	0.5 - 500

TIMING FUNCTION

1	Repeat Cycle Start ON
2	Repeat Cycle Start OFF

OUTPUT

B	Relay DPDT

APPLICABLE ACCESSORIES

See accesory section for details

Output modules	RP-101
Potentiometers	RP-201 thru RP-210
Reference dial	RP-216
Locking attachment	RP-217

KANSON ELECTRONICS, INC.

INDUSTRIAL SOLID STATE TIMER

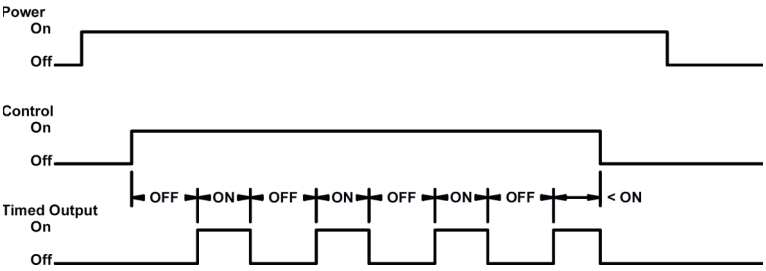
MODEL 1061 BASE MOUNT

Totally solid state dual timer available in two timing functions.

Features:

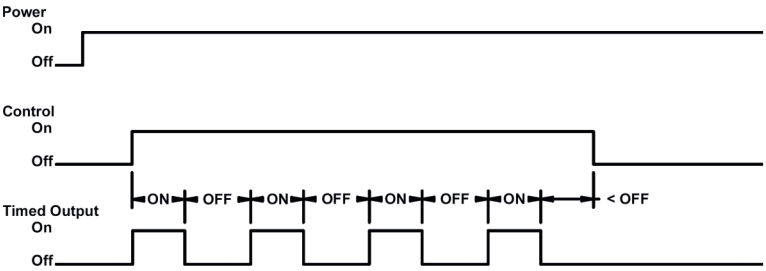
- Timing control contacts independent of unit input power.
- Time ranges from 0.06 to 500 seconds.
- 120 VAC input.
- 35 VA output @ input voltage.
- Optional timing indication light.

TIMING



REPEAT CYCLE START OFF

- Control is independent of unit power.
- When control turns on, the output remains off while OFF time elapses. The output then turns on while ON time elapses.
- This cycle then repeats until power is removed from the unit or control turns off.



REPEAT CYCLE START ON

- Control is independent of unit power.
- When control turns on, the output turns on while ON time elapses. The output then turns back off while OFF time elapses.
- This cycle then repeats until power is removed from the unit or control turns off.

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INDUSTRIAL SOLID STATE TIMER

MODEL 1061 BASE MOUNT

KANSON ELECTRONICS, INC.

SPECIFICATIONS

INPUT

VOLTAGE: 120VAC
FREQUENCY: 50/60Hz
TOLERANCE (VOLTAGE): ±15% of nominal
POWER CONSUMPTION: 10VA maximum

OUTPUT

TYPE: Solid State
RATING: 35VA continuous, 150VA in-rush @ 120VAC

TIMING

AVAILABLE TYPES: Repeat Cycle (start ON or start OFF)
INDICATION: Optional incadescent light - On when output energized
TIME RANGE: 0.06 to 500 seconds in 9 ranges
TIME RAMP: 0.06 sec. min. time - 100kΩ/sec., 0.5 sec. min. time - 10kΩ/sec.
RANGE TOLERANCE: ≤10% of setting
CONTROL: Isolated contact closure
CONTROL TERMINALS: E-F
VOLTAGE PRESENT AT CONTROL TERMINALS: Same as input voltage

PHYSICAL

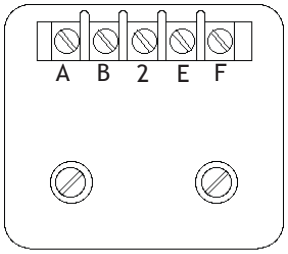
OPERATING TEMP: 0° to 55° C (32° to 131° F)
TIMING VARIATION VS. TEMP: ±5% maximum
MOUNTING: Base Mount
TERMINATION: Terminal blocks on face of timer
HOUSING: Metal

WIRING

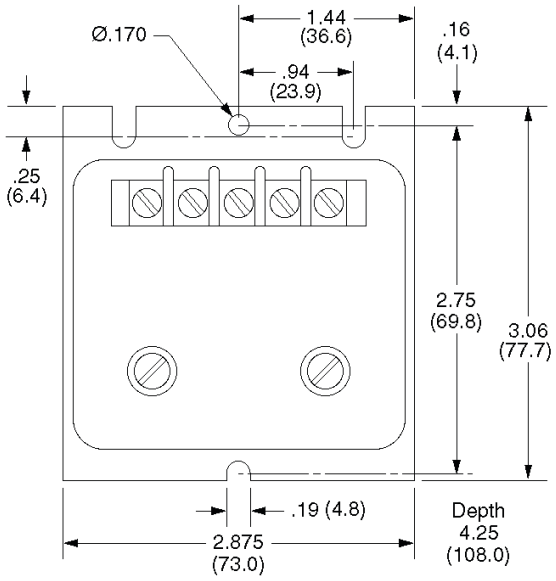
A-B Voltage input (constant)
E-F Control (starts timing function)
B-2 N.O. timed output

Caution: Never apply voltage E-F

WIRING TERMINAL LOCATION



DIMENSIONS INCH (MM)



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KANSON ELECTRONICS, INC.

INDUSTRIAL SOLID STATE TIMER

MODEL 1061 BASE MOUNT

ORDERING DATA

ORDERING CODE **1061 - 1 - G - G - 2 - C ---**

BASIC MODEL NUMBER

1061

INPUT VOLTAGE

1	120 VAC

TIME RANGE (secs) ON time / OFF time

ON and OFF delay time ranges must have the same minimum time.

D	0.06 - 1.0
E	0.06 - 2.5
F	0.06 - 5.0
G	0.06 - 10.0
H	0.06 - 25.0
J	0.5 - 50.0
K	0.5 - 100
L	0.5 - 250
M	0.5 - 500

TIMING FUNCTION

1	Repeat Cycle Start ON
2	Repeat Cycle Start OFF

OUTPUT

C	Solid State (AC) 1 N.O. 35VA

OPTION (if desired)

OP6	Timing indication light

APPLICABLE ACCESSORIES

See accesory section for details

Potentiometers	RP-201 thru RP-210
Reference dial	RP-216
Locking attachment	RP-217

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KANSON ELECTRONICS, INC.

INDUSTRIAL SOLID STATE TIMER

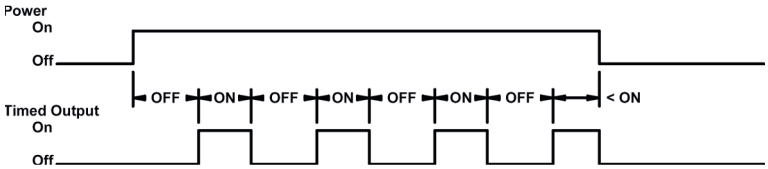
MODEL 1068 PANEL MOUNT

Dual time control repeat cycle timer.

Features:

- Input power initiates the timing sequence.
- Time ranges from 0.1 to 500 seconds.
- 100-240 VAC, 24 V AC/DC or 12 VDC input.
- 5 amp relay output.
- Output indication LEDs.

TIMING



REPEAT CYCLE

- Control is affected with power application.
- When power turns on, the output remains off while OFF time elapses.
- The output then turns on while ON time elapses.
- This cycle then repeats until power is removed from the unit.

SPECIFICATIONS

TIMING

AVAILABLE TYPES:	Repeat Cycle
REPEAT ACCURACY:	±0.3% of setting
RESET TIME:	300 msec minimum
TIME RANGE:	0.1 secs to 500 hours in 16 ranges

INPUT

VOLTAGE:	100-240VAC, 24VAC/DC, 12VDC
FREQUENCY:	50/60Hz (AC Models)
TOLERANCE (VOLTAGE):	-10% to 15% of nominal
POWER CONSUMPTION:	10VA (100-240VAC), 2.5VA (24VAC), 2W (12VDC & 24VDC)
TRANSIENT PROTECTION:	MOV

OUTPUT

TYPE:	Electromechanical relay
MECHANICAL LIFE:	20,000,000 operations
ELECTRICAL LIFE:	100,000 operations minimum (at full rated load)
RATING:	5A @ 240VAC (resistive)

PHYSICAL

OPERATING TEMP:	-10° to 50° C (14° to 122° F)
TIMING VARIATION VS. TEMP:	±2% maximum
MOUNTING:	Plug-in or panel mount
TERMINATION:	8-pin socket or screw terminals
HOUSING:	Polycarbonate
DEGREE OF PROTECTION:	IP50 (standard), IP65 (special)

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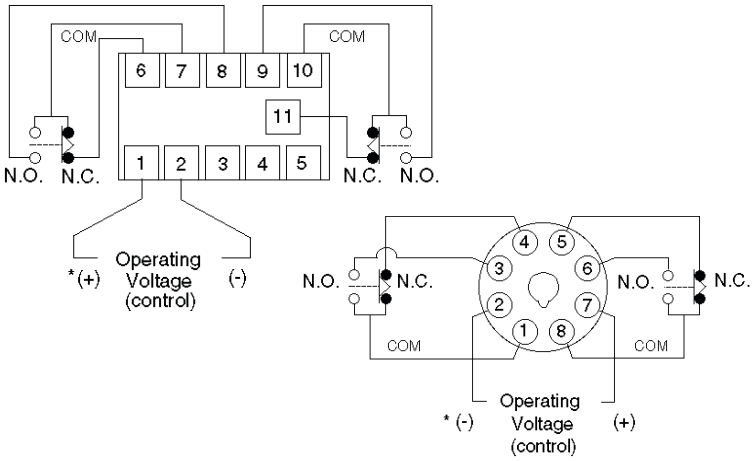
INDUSTRIAL SOLID STATE TIMER

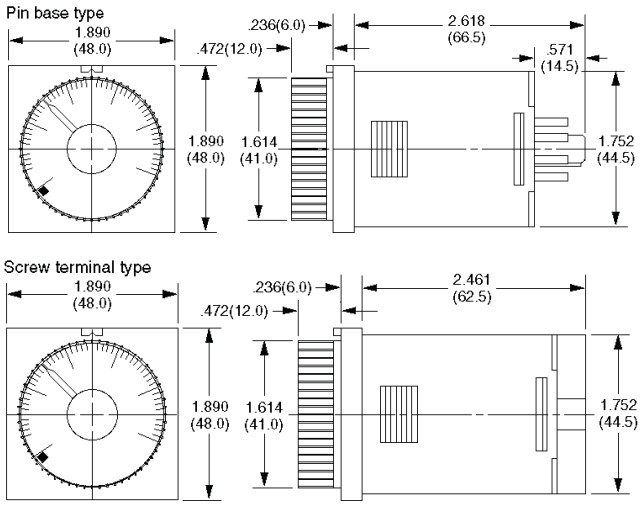
MODEL 1068 PANEL MOUNT

KANSON ELECTRONICS, INC.

WIRING

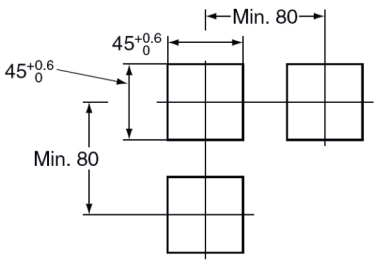


DIMENSIONS INCH (MM)

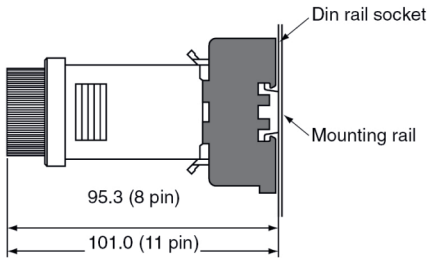


MOUNTING MM

PANEL MOUNT
Panel mount clip RP-325 allows access to the timer face though the panel.



DIN RAIL MOUNT
8 Pin socket RP-320 has built in hold down clips and is DIN rail compatible.



INDUSTRIAL SOLID STATE TIMER

MODEL 1068 PANEL MOUNT

ORDERING DATA

ORDERING CODE **1068 - 1 - P - 9 - B - 1 - 1**

BASIC MODEL NUMBER

1068

INPUT VOLTAGE

1	100-240 VAC
2	24 V AC/DC
3	12 VDC

TIME RANGE

P

secs	mins	hrs	10 hrs
0.1-1.0	**0.1-1.0**	**0.1-1.0**	**1.0-10**
0.5-5.0	**0.5-5.0**	**0.5-5.0**	**5.0-50**
1.0-10	**1.0-10**	**1.0-10**	**10-100**
5.0-50	**5.0-50**	**5.0-50**	**50-500**

TIMING FUNCTION

9	Repeat Cycle

OUTPUT

B	Relay DPDT

TERMINATION

1	8 pin plug-in base
2	Screw terminals

DEGREE OF PROTECTION

1	IP50 Standard
2	IP65 Sealed unit

APPLICABLE ACCESSORIES

See accesory section for details

8 pin socket	RP-320
8 pin reversible socket	RP-321
8 pin cable socket	RP-323
Panel mount clip	RP-325
Stop rings	RP-327

INDUSTRIAL SOLID STATE TIMER

MODEL 1071 PLUG-IN

KANSON ELECTRONICS, INC.

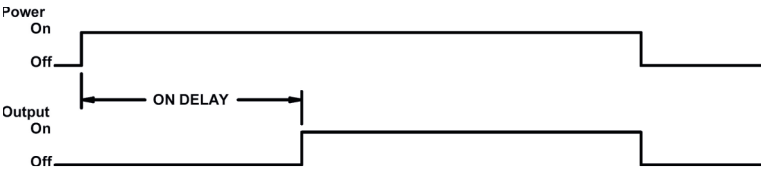
Multi time range ON delay timer.

Features:

- Input power initiates timing sequence.
- Selectable time ranges from 0.025 to 2000 sec.
- 120 VAC or 24 V AC/DC input.
- 5 amp relay output.
- Remote adjustable (only output A & C).

UL File No. E50957 CSA File No. LR92518

TIMING



ON DELAY

- Control is affected with power application.
- When power turns on, delay time elapses before output turns on.
- The output remains on until the unit is reset by removing power.

SPECIFICATIONS

INPUT

VOLTAGE: 120VAC/DC, 24VAC/DC
FREQUENCY: 50/60Hz or DC
TOLERANCE (VOLTAGE): 15% of nominal
POWER CONSUMPTION: 4VA maximum
TRANSIENT PROTECTION: MOV

OUTPUT

TYPE: Electromechanical relay
RATING: 5A @ 240VAC maximum

TIMING

AVAILABLE TYPES: ON Delay
REPEAT ACCURACY: ±0.5% of setting or 0.004 seconds, whichever is greater
RESET TIME: 40 msec minimum
TIME RATIO: 10 to 1 potentiometer
TIME RANGE: 8 per unit
INDICATION: LED - ON when timing
RANGE TOLERANCE: ≤10% typical
CONTROL: Power actuated or AC proximity sensor
CONTROL TERMINALS: 2-7 (8-pin unit), 2-10 (11-pin unit)
VOLTAGE PRESENT AT CONTROL TERMINALS: Same as input voltage

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SPECIFICATIONS CON'T

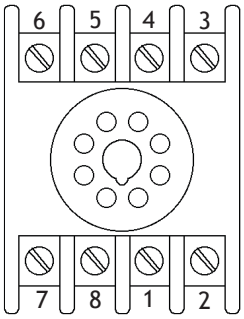
PHYSICAL

OPERATING TEMP: -20° to 70° C (-4° to 158° F)
TIMING VARIATION VS. TEMP: ±5% maximum
MOUNTING: Plug-in
TERMINATION: 8- or 11-pin socket
HOUSING: Plastic

WIRING

OUTPUT A
2-7 Voltage input (control)
1-3 N.O. timed
1-4 N.C. timed
5-6 Remote adjust
8 Not used

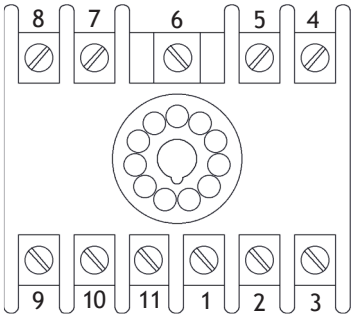
Caution: Never apply voltage to 5-6



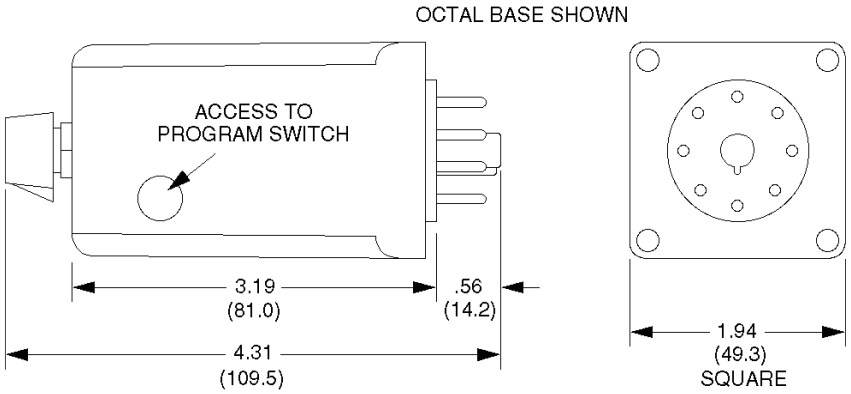
OUTPUT B
2-7 Voltage input (control)
1-3 N.O. timed
1-4 N.C. timed
8-6 N.O. timed
8-5 N.C. timed

OUTPUT C
2-7 Voltage input (control)
1-3 N.O. timed
1-4 N.C. timed
11-9 Remote adjust
11-8 N.C. timed
5-6 Remote adjust
7 Not used

Caution: Never apply voltage to 5-6



DIMENSIONS INCH (MM)



ORDERING DATA

ORDERING CODE 1071 - 1 - P - 1 - B

BASIC MODEL NUMBER
1071

INPUT VOLTAGE
1	120 VAC
2	24 V AC/DC

TIME RANGE (secs)
P (switch positions as follow)

0	200-2000	5	0.2-2.0
1	50-500	6	0.06 - 0.5
2	12-120	7	0.025 - 0.13
3	3.0-30	8	not used
4	0.75-7.5	9	not used

TIMING FUNCTION
1	ON Delay

OUTPUT
A	Relay SPDT - remote adjust (8 pin plug)
B	Relay DPDT (8 pin plug)
C	Relay DPDT - remote adjust (11 pin plug)

(Remote adjust units require an external 100k Potentiometer - RP-204.)

APPLICABLE ACCESSORIES
See accesory section for details

Potentiometers	RP-204
Reference dial	RP-216
Locking attachment	RP-217
8 pin socket	RP-302
11 pin socket	RP-303
Hold down clip	RP-305

INDUSTRIAL SOLID STATE TIMER

MODEL 1073 PLUG-IN

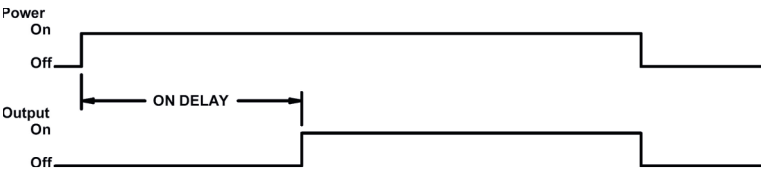
KANSON ELECTRONICS, INC.

Multifunction timer with instant contacts or ON delay timer.

Features:

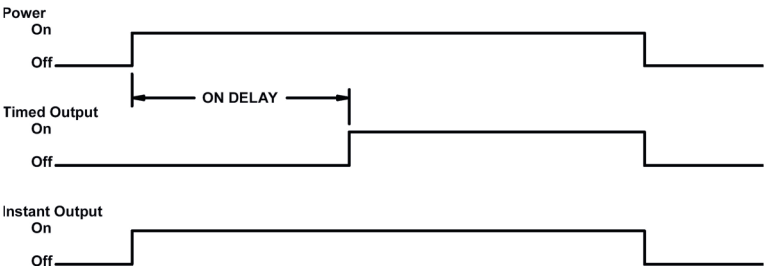
- 5 timing functions.
- Input power initiates the timing sequence.
- Time ranges from 0.1sec to 500 hr.
- 100-240 VAC, 24 V AC/DC or 12 VDC input.
- 5 amp relay output.
- Power and output indication LEDs.

TIMING



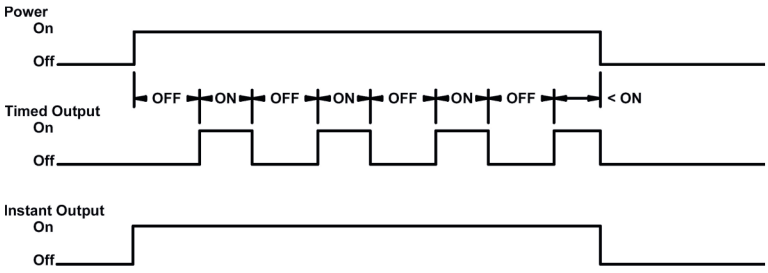
ON DELAY - output B

- Control is affected with power application.
- When power turns on, delay time elapses before output turns on.
- The output remains on until the unit is reset by removing power.



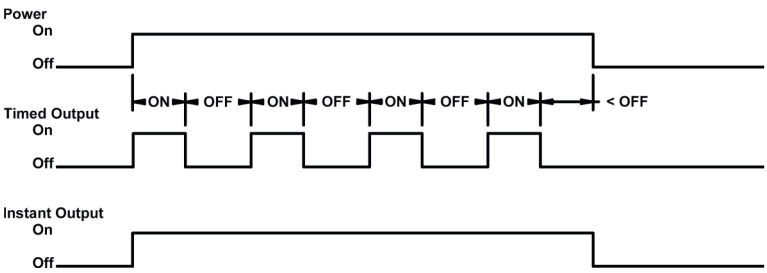
ON - ON DELAY - output A

- Control is affected with power application.
- When power turns on, delay time elapses before timed output turns on.
- The timed output remains on until the unit is reset by removing power.
- Instant output directly follows control input.



FL - REPEAT CYCLE START OFF - output A

- Control is affected with power application.
- When power turns on, the output remains off while time elapses.
- The output then turns on while time elapses.
- This cycle then repeats until power is removed from the unit.
- Instant output directly follows control input.



FO - REPEAT CYCLE START ON - output A

- Control is affected with power application.
- When power turns on, the output turns on while delay time elapses.
- The output then turns off while delay time elapses
- This cycle then repeats until power is removed from the unit.
- Instant output directly follows control input.

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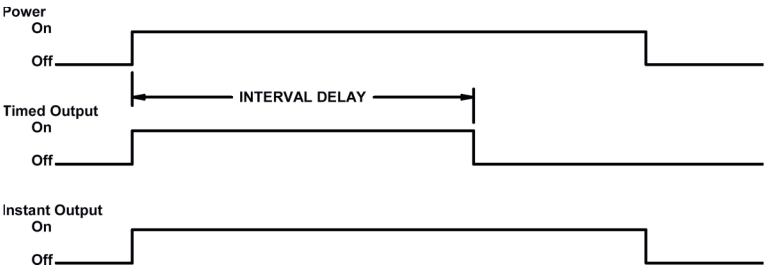
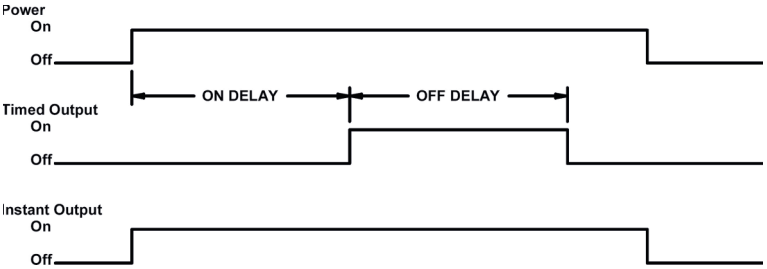
TIMING (CONT)



OS - INTERVAL - output A

- Control is affected with power application.
- When power is applied, timed output turns on and remains on till delay time is elapsed or power is removed.
- Instant output directly follows control input.



OC - ONE CYCLE - output A

- Control is affected with power application.
- When power turns on, delay time elapses before output turns on.
- The delay then restarts and output turns back off once delay time has elapsed.
- Instant output directly follows control input.

SPECIFICATIONS

INPUT

VOLTAGE:	100-420VAC, 24VAC/DC, 12VDC
FREQUENCY:	50/60Hz (AC Models)
TOLERANCE (VOLTAGE):	-15% to +10% of nominal
POWER CONSUMPTION:	10VA (100-240VAC), 2.5VA (24VAC), 2W (12VDC & 24VDC)
TRANSIENT PROTECTION:	MOV

OUTPUT

TYPE:	Electromechanical relay
MECHANICAL LIFE:	20,000,000 operations
ELECTRICAL LIFE:	100,000 operations minimum (at full rated load)
RATING:	5A @ 240VAC (resistive)

TIMING

TYPE:	Output B:	On Delay only
	Output A:	On Delay, Repeat Cycle Start Off, Repeat Cycle Start On, Interval, One Cycle
REPEAT ACCURACY:	±0.3% of setting	
RESET TIME:	100 msec minimum	
TIME RANGE:	0.01 to 500 hours in 16 ranges	

PHYSICAL

OPERATING TEMP:	-10° to 50° C (-14° to 122° F)
TIMING VARIATION VS. TEMP:	±2% maximum
MOUNTING:	Plug-in or Panel Mount
TERMINATION:	8-pin socket or screw terminals
HOUSING:	Polycarbonate
DEGREE OF PROTECTION:	IP50 (standard, IP65 (special)

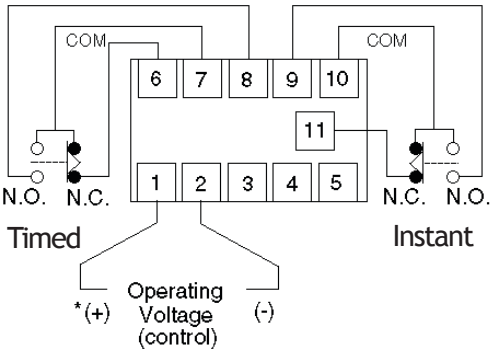
INDUSTRIAL SOLID STATE TIMER

MODEL 1073 PLUG-IN

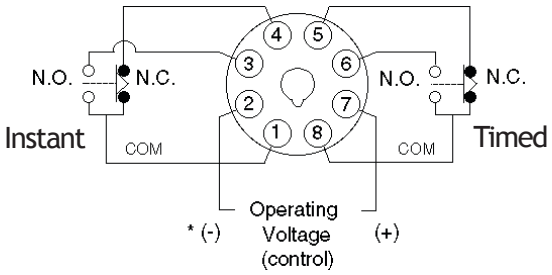
KANSON ELECTRONICS, INC.

WIRING

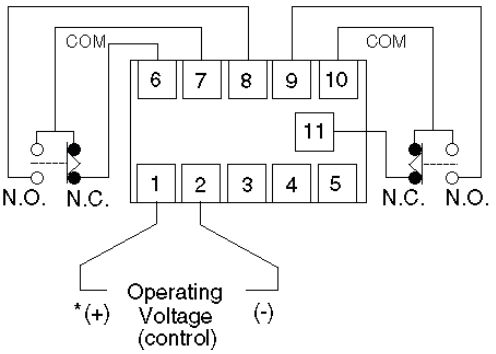
OUTPUT A



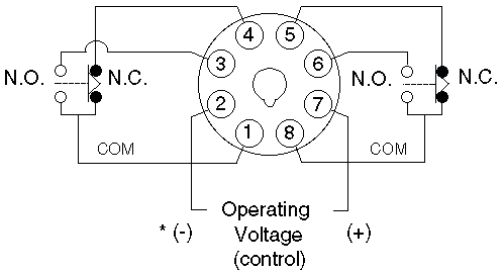
*Polarity indicated for DC Models only.



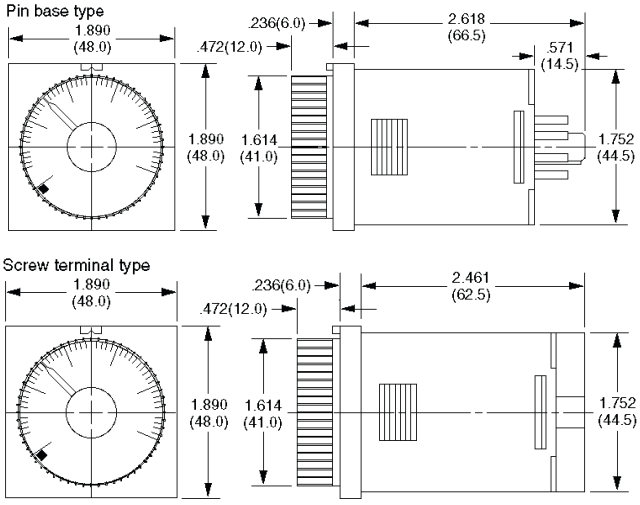
OUTPUT B



*Polarity indicated for DC Models only.



DIMENSIONS INCH (MM)



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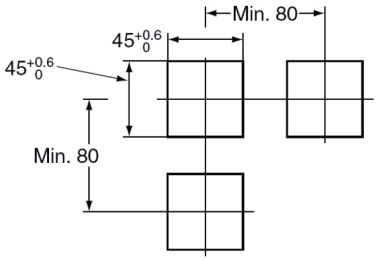
INDUSTRIAL SOLID STATE TIMER

MODEL 1073 PLUG-IN

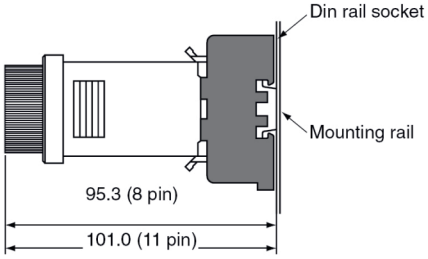
KANSON ELECTRONICS, INC.

MOUNTING MM

PANEL MOUNT
Panel mount clip RP-325 allows access to the timer face though the panel.



DIN RAIL MOUNT
8 Pin socket RP-320 has built in hold down clips and is DIN rail compatible.



ORDERING DATA

ORDERING CODE **1073 - 1 - P - 2 - A - 1 - 1**

BASIC MODEL NUMBER
1073

INPUT VOLTAGE

1	100-240 VAC
2	24 V AC/DC
3	12 VDC

TIME RANGE

P

secs	mins	hrs	10 hrs
0.1-1.0	**0.1-1.0**	**0.1-1.0**	**1.0-10**
0.5-5.0	**0.5-5.0**	**0.5-5.0**	**5.0-50**
1.0-10	**1.0-10**	**1.0-10**	**10-100**
5.0-50	**5.0-50**	**5.0-50**	**50-500**

TIMING FUNCTION and OUTPUT

1 - B	ON Delay with DPDT relay
2 - A	ON Delay, Repeat Cycle, Inteval, One Cycle Timed relay SPDT and Instant relay SPDT

TERMINATION

1	8 pin plug-in base
2	Screw terminals

DEGREE OF PROTECTION

1	IP50 Standard
2	IP65 Sealed unit

APPLICABLE ACCESSORIES

See accesory section for details

8 pin socket	RP-320
8 pin reversible socket	RP-321
8 pin cable socket	RP-323
Panel mount clip	RP-325
Stop rings	RP-327

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INDUSTRIAL SOLID STATE TIMER

MODEL 1081 PLUG-IN

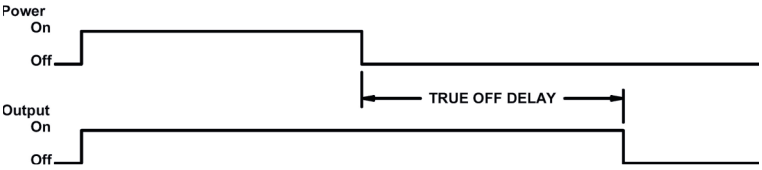
KANSON ELECTRONICS, INC.

True Off Delay timer.

Features:

- Input power initiates the timing sequence.
- Time ranges from 0.04 sec to 10 min.
- 12 to 240 volt inputs in 5 options.
- 3 amp relay output.
- Power indication LEDs.

TIMING



TRUE OFF DELAY

- Control is affected with power application.
- When power turns on, the output turns on.
- When power turns off, a capacitor, which charges in less than 100 ms, maintains output on while the delay time elapses.

SPECIFICATIONS

INPUT

VOLTAGE:	100-120VAC, 200-240VAC, 24VAC, 24VDC, 12VDC
FREQUENCY:	50/60Hz (AC Models)
TOLERANCE (VOLTAGE):	-15% to +10% of nominal
POWER CONSUMPTION:	5VA (AC Models), 2W (DC Models)
TRANSIENT PROTECTION:	MOV

OUTPUT

TYPE:	Electromechanical relay
MECHANICAL LIFE:	10,000,000 operations
ELECTRICAL LIFE:	100,000 operations minimum (at full rated load)
RATING:	3A @ 240VAC (resistive)

TIMING

TYPE:	True OFF Delay
REPEAT ACCURACY:	±0.3% of setting
RESET TIME:	100 msec minimum at maximum time setting
TIME RANGE:	0.04 seconds to 10 seconds or 0.04 minutes to 10 minutes

PHYSICAL

OPERATING TEMP:	-10° to 50° C (-14° to 122° F)
TIMING VARIATION VS. TEMP:	±2% maximum
MOUNTING:	Plug-in or Panel Mount
TERMINATION:	8-pin socket
HOUSING:	Polycarbonate
DEGREE OF PROTECTION:	IP50 (standard), IP65 (special)

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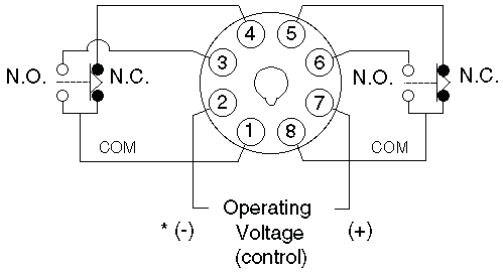
INDUSTRIAL SOLID STATE TIMER

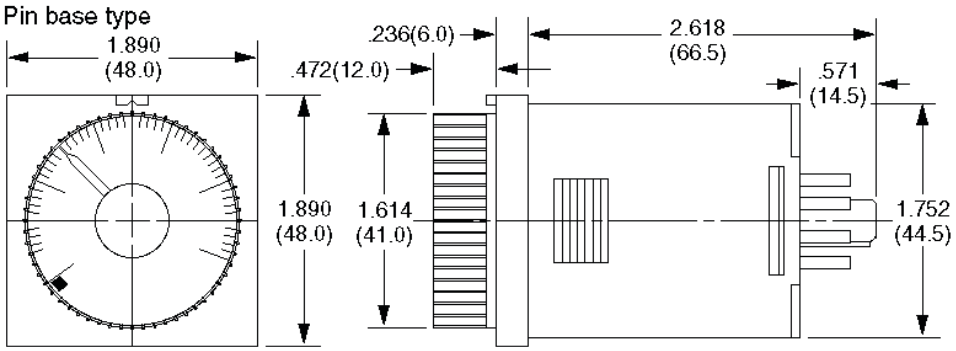
MODEL 1081 PLUG-IN

KANSON ELECTRONICS, INC.

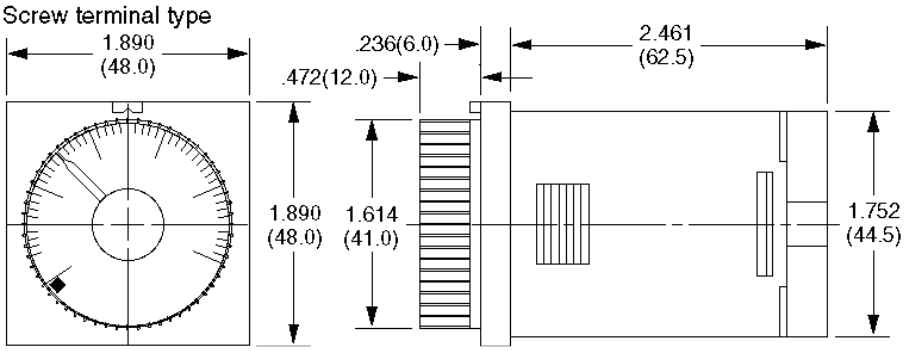
WIRING



DIMENSIONS INCH (MM)

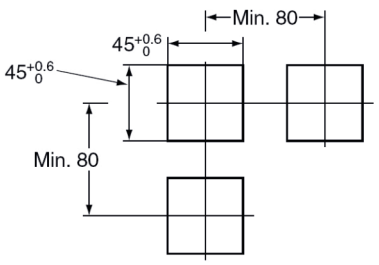


Model 1081 is not available with screw terminals - dimensions shown for model 1090 only.

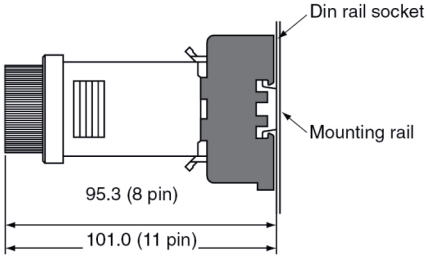


MOUNTING MM

PANEL MOUNT
Panel mount clip RP-325 allows access to the timer face though the panel.



DIN RAIL MOUNT
8 Pin socket RP-320 has built in hold down clips and is DIN rail compatible.



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ORDERING DATA

ORDERING CODE **1081 - 1 - B - 2 - B - 1**

BASIC MODEL NUMBER
1081

INPUT VOLTAGE

1	120 VAC
2	240 VAC
3	24 VAC
4	24 VDC
5	12 VDC

TIME RANGE

A	
	0.04 - 1.0 sec
	0.2 - 5.0 sec
	0.4 - 10 sec
B	
	0.04 - 1.0 min
	0.4 - 10 min
	0.2 - 5.0 min

TIMING FUNCTION

2	OFF Delay

OUTPUT

B	Relay DPDT

DEGREE OF PROTECTION

1	IP50 Standard
2	IP65 Sealed unit

APPLICABLE ACCESSORIES

See accesory section for details

8 pin socket	RP-320
8 pin reversible socket	RP-321
8 pin cable socket	RP-323
Panel mount clip	RP-325
Stop rings	RP-327

INDUSTRIAL SOLID STATE TIMER

MODEL 1090 PLUG-IN

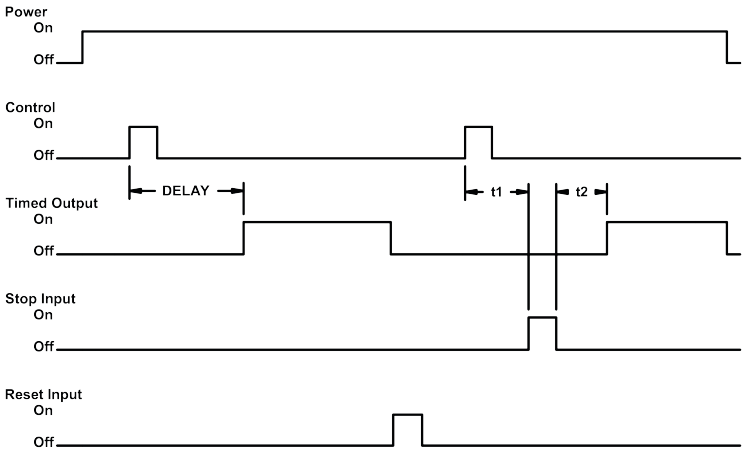
KANSON ELECTRONICS, INC.

Multifunction timer with single time control.

Features:

- 8 timing functions.
- Control, stop and reset contacts independent of unit power.
- Time ranges from 0.1sec to 500 hr.
- 100-240 VAC, 24 V AC/DC or 12 VDC input.
- 5 amp relay output.
- Power and output indication LEDs.

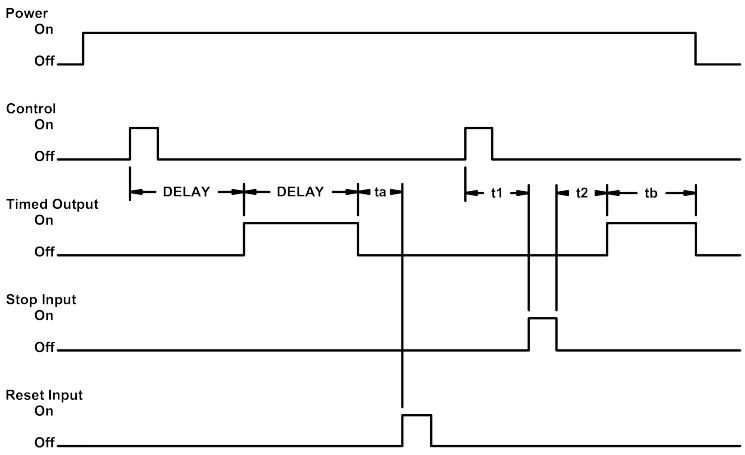
TIMING



ON - PULSE ON DELAY

- Control is independent of unit power.
- When control turns on, delay time elapses before output turns on.
- The output remains on until the unit is reset either by removing power or applying independent reset control.
- Turning control on and off during delay time has no effect on the output or timing.

(t1 + t2 = DELAY)



FL - PULSE REPEAT CYCLE START OFF

- Control is independent of unit power.
- When control turns on, the output remains off while delay time elapses.
- The output then turns on and remains on while delay time elapses.
- This cycle then repeats until power is removed from the unit or independent reset control is applied.
- Turning control on and off while cycling has no effect on the output or timing.

(ta<DELAY; tb<DELAY; t1 + t2 = DELAY)

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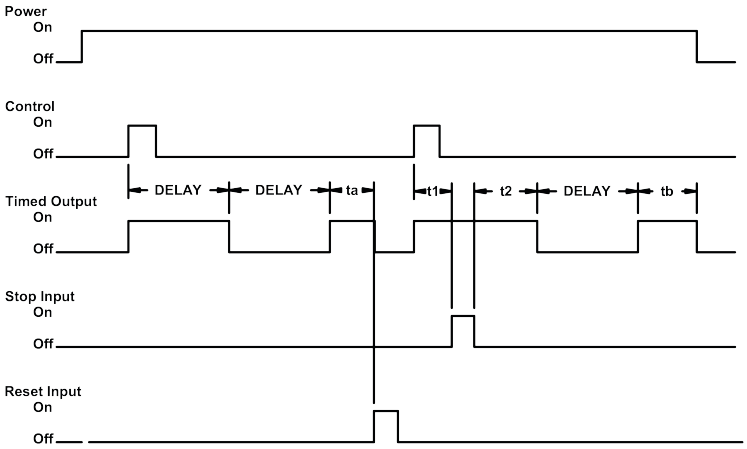
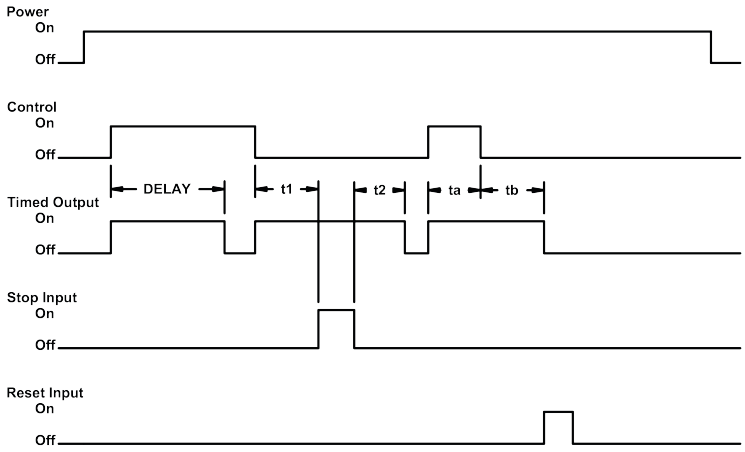
TIMING (CONT)



FO - PULSE REPEAT CYCLE START ON

- Control is independent of unit power.
- When control turns on, the output turns on while delay time elapses.
- The output then turns back off while delay time elapses.
- This cycle then repeats until power is removed from the unit or independent reset control is applied.
- Turning control on and off while cycling has no effect on the output or timing.

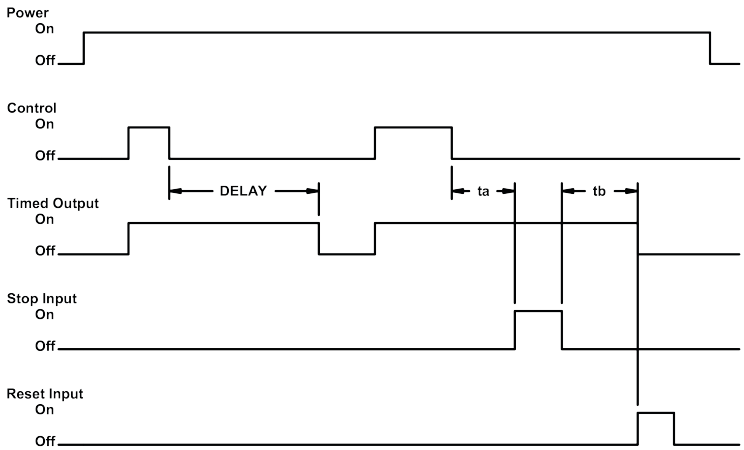
(ta<DELAY; tb<DELAY; t1+t2=DELAY)



OF1 - MOTION DETECT

- Control is independent of unit power.
- When control changes, output turns on and delay time elapses before output returns to normal.
- If control changes during the delay time period, the output remains on and the delay time will restart.

(t1+t2=DELAY; ta<DELAY; tb<DELAY)

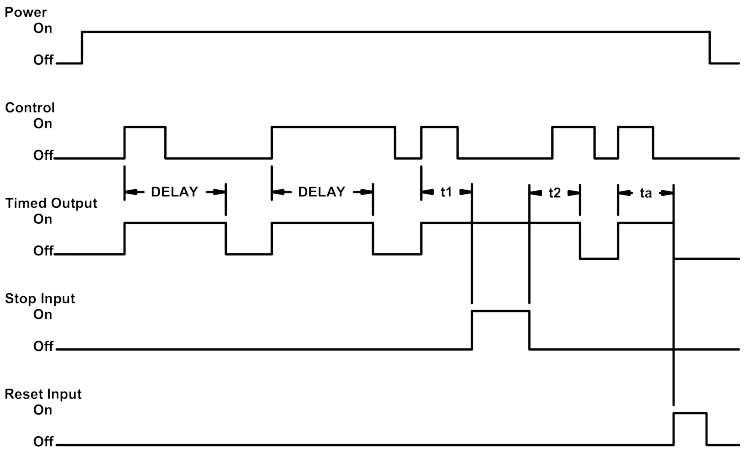


SF - OFF DELAY

- Control is independent of unit power.
- When control turns on, the output turns on.
- When the control turns off, the delay starts and output turns off after time elapses.

(ta +tb = DELAY)

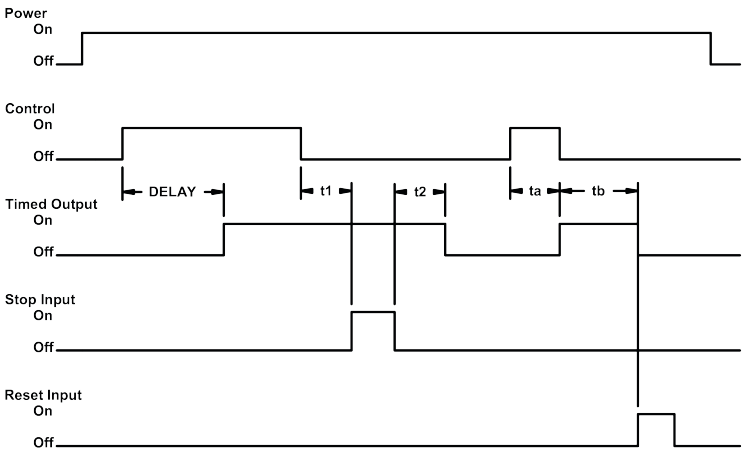
TIMING (CONT)



OS - PULSE INTERVAL

- Control is independent of unit power.
- When control turns on, the output turns on.
- Output remains on while delay time elapses.
- Turning control on and off while cycling has no effect on the output or timing.

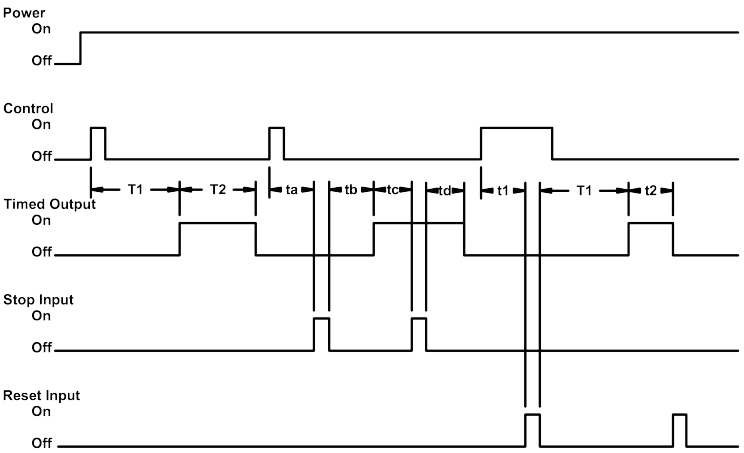
(t1+t2=DELAY; ta<DELAY)



OF2 - NO DELAY / OFF DELAY

- Control is independent of unit power.
- When control changes, delay time elapses before output changes state.
- If control changes during the delay time period, the output changes state and the delay time restarts.

(t1+t2=DELAY; ta<DELAY; tb<DELAY)



OC - PULSE ONE CYCLE

- Control is independent of unit power.
- When control turns on, delay time elapses before output turns on.
- The output remains on ~0.8 seconds then turns back off.
- Turning control on and off during delay time has no effect on the output or timing.

(T2 = 0.8 sec; ta+tb=T1; tc+td=T2; t1<T1; t2<T2)

INDUSTRIAL SOLID STATE TIMER — MODEL 1090 PLUG-IN

KANSON ELECTRONICS, INC.

SPECIFICATIONS

INPUT

VOLTAGE:	100-240VAC, 24VAC, 12VDC
FREQUENCY:	50/60Hz (AC Models)
TOLERANCE (VOLTAGE):	-15% to +10% of nominal
POWER CONSUMPTION:	10VA (100-240VAC), 2.5VA (24 VAC), 2W (12VDC & 24VDC)
TRANSIENT PROTECTION:	MOV

OUTPUT

TYPE:	Electromechanical relay
MECHANICAL LIFE:	20,000,000 operations
ELECTRICAL LIFE:	100,000 operations minimum (at full rated load)
RATING:	5A @ 240VAC (resistive)

TIMING

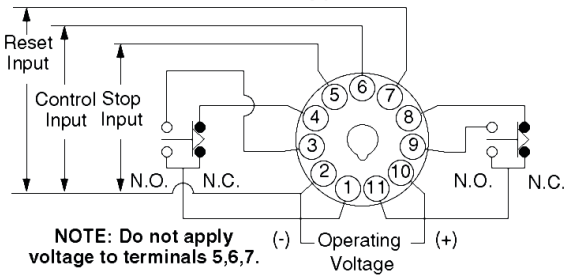
TYPE:	Multifunction programmable (Pulse ON Delay, Repeat Cycle Start OFF, Repeat Cycle Start ON, Motion Detect, OFF Delay, Pulse Interval ON Delay / OFF Delay, Pulse One Cycle)
REPEAT ACCURACY:	±0.3% of setting
RESET TIME:	100 msec minimum
TIME RANGE:	0.1 seconds to 500 hours in 16 ranges

PHYSICAL

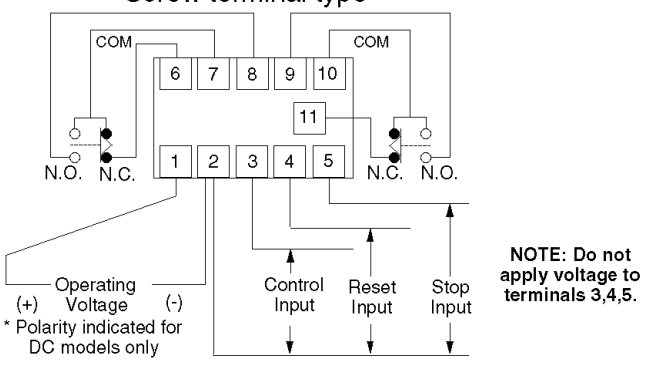
OPERATING TEMP:	-10° to 50° C (-14° to 122° F)
TIMING VARIATION VS. TEMP:	±2% maximum
MOUNTING:	Plug-in or Panel Mount
TERMINATION:	11-pin socket or screw terminals
HOUSING:	Polycarbonate
DEGREE OF PROTECTION:	IP50 (standard), IP65 (special)

WIRING

Pin base type



Screw terminal type



Control, Reset & Stop input is accomplished by isolated contact closure between indicated terminals.

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DIMENSIONS & MOUNTING

Same as Model 1081

ORDERING DATA

ORDERING CODE **1090 - 1 - P - 3 - B - 1 - 1**

BASIC MODEL NUMBER

1090

INPUT VOLTAGE

1	100-240 VAC
2	24 V AC/DC
3	12 VDC

TIME RANGE

P

secs	mins	hrs	10 hrs
0.1-1.0	0.1-1.0	0.1-1.0	1.0-10
0.5-5.0	0.5-5.0	0.5-5.0	5.0-50
1.0-10	1.0-10	1.0-10	10-100
5.0-50	5.0-50	5.0-50	50-500

TIMING FUNCTIONS

3	Selectable Pulse ON Delay, Pulse Repeat Cycle Start OFF, Pulse Repeat Cycle Start ON, Motion Detect, OFF Delay, Pulse Interval, ON Delay / OFF Delay, Pulse One Cycle

OUTPUT

B	Relay DPDT

TERMINATION

1	11 pin plug-in base
2	Screw terminals

DEGREE OF PROTECTION

1	IP50 Standard
2	IP65 Sealed unit

APPLICABLE ACCESSORIES

See accessory section for details

11 pin socket	RP-322
11 pin cable socket	RP-324
Panel mount clip	RP-325
Stop rings	RP-327

INDUSTRIAL SOLID STATE TIMER

MODEL 1094 PANEL MOUNT

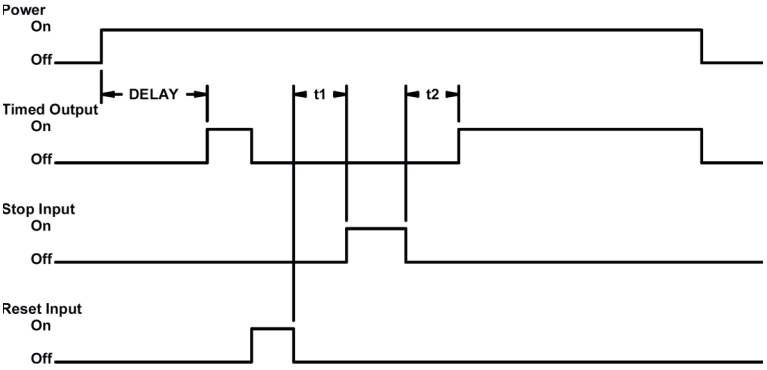
KANSON ELECTRONICS, INC.

Multifunction digital timer with single time control.

Features:

- 8 timing functions.
- Control, stop and reset contacts independent of unit power.
- Time ranges from 0.001sec to 9,999 hr.
- 100-240 VAC, 24 VAC or 12-24 VDC input.
- 5 amp relay or open collector transistor output.
- EE-PROM memory - setting and elapsed delay.

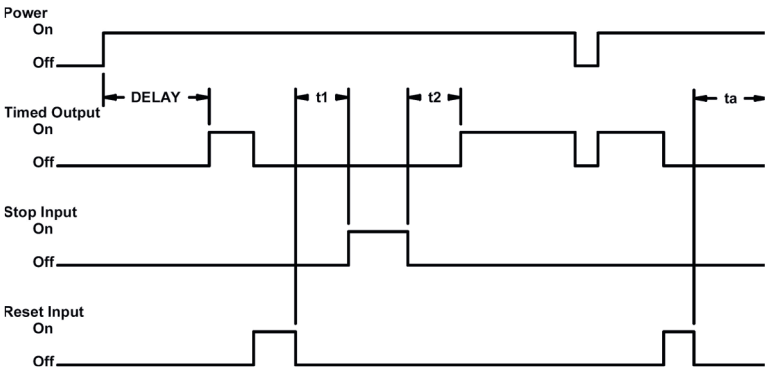
TIMING



A - ON DELAY

- Control is affected with power application.
- When power turns on, delay time elapses before output turns on.
- The output remains on until the unit is reset either by removing power or by applying the independant reset input.

(t1+t2=DELAY)



A2 - ON DELAY

- Control is affected with power application.
- When control turns on, delay time elapses before output turns on.
- The output remains on until the unit is reset by applying the independent reset input.
- Elapsed time and output state are retained in memory in the event of power or control interruption.

(t1+t2=DELAY; ta<DELAY)

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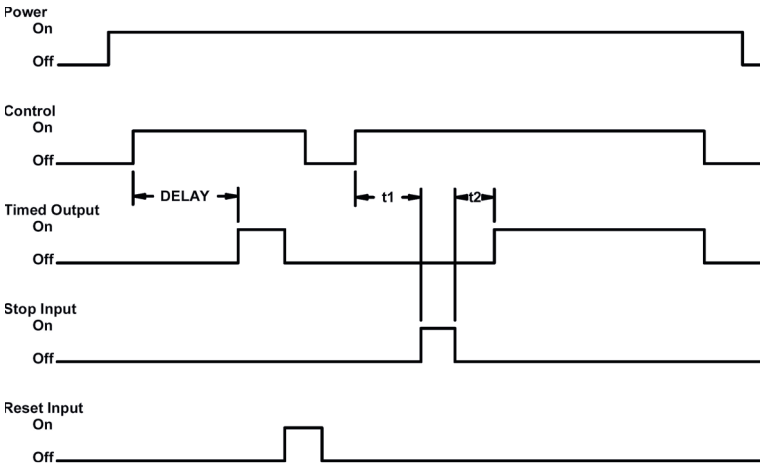
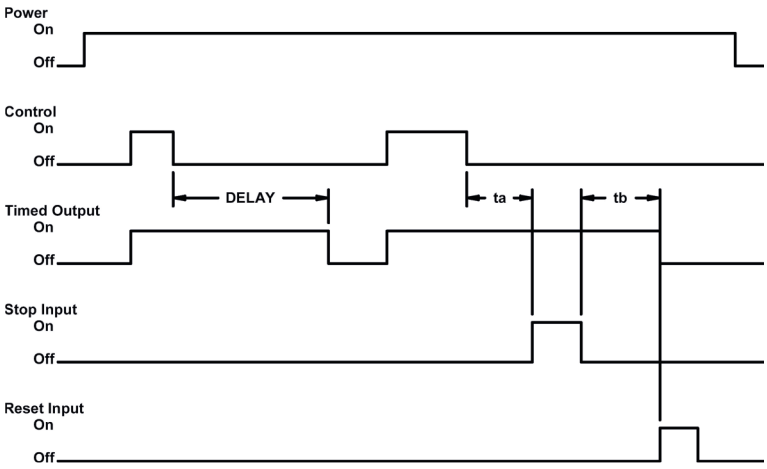
TIMING (CONT)



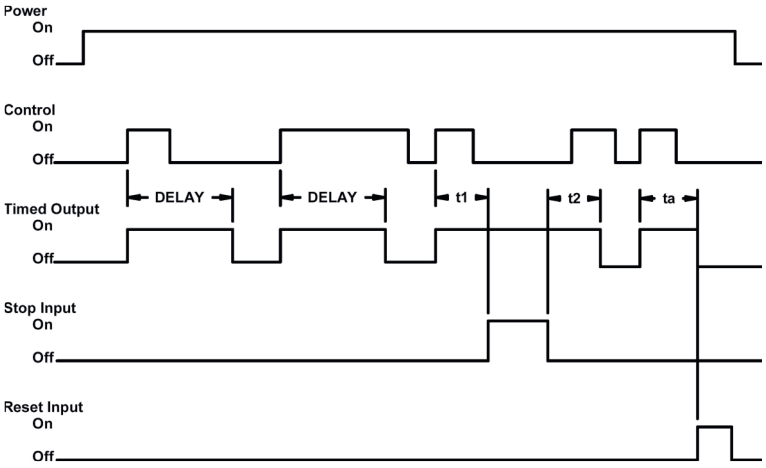
B - ON DELAY
- Control is independent of unit power.
- When control turns on, delay time elapses before timed output turns on.
- The timed output remains on until the unit is reset either by removing power or control.

(t1+t2=DELAY)



C - OFF DELAY
- Control is independent of unit power.
- When control turns on, the output turns on.
- When control turns off, the delay starts and output turns off after time elapses.

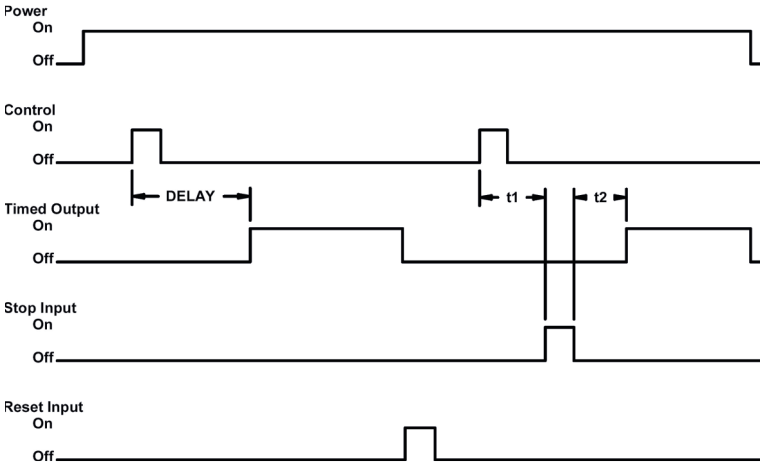
(ta+tb=DELAY)



D - PULSE INTERVAL
- Control is independent of unit power.
- When control turns on, the output turns on.
- Output remains on while delay time elapses.
- Turning control on and off during delay time has no effect on the output or timing.

(t1+t2=DELAY; ta<DELAY)

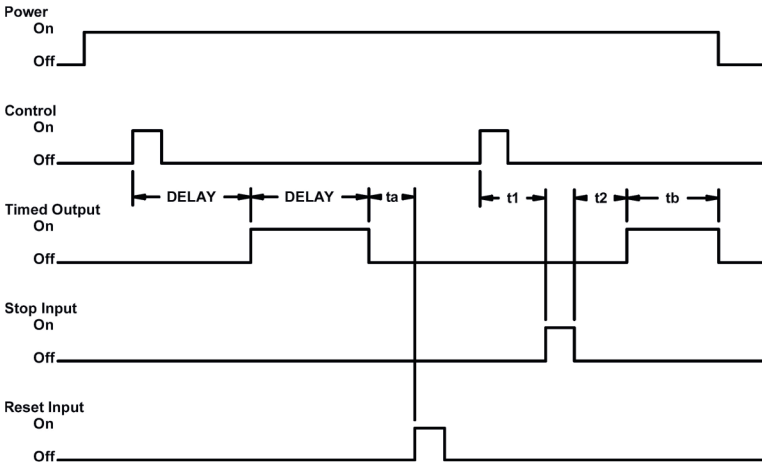
TIMING (CONT)



E - PULSE ON DELAY

- Control is independent of unit power.
- When control turns on, delay time elapses before output turns on.
- The output remains on until the unit is reset either by removing power or applying independent reset input.
- Turning control on and off during delay time has no effect on the output or timing.

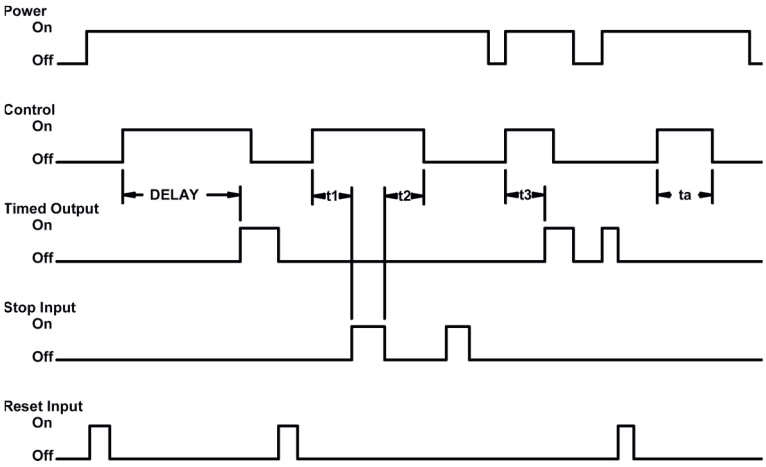
(t1+t2=DELAY)



F - PULSE REPEAT CYCLE

- Control is independent of unit power.
- When control turns on, the output remains off while delay time elapses.
- The output then turns on while delay time elapses.
- This cycle then repeats until power is removed from the unit or independent reset control is applied
- Turning control on and off while cycling has no effect on the output or timing.

(ta<DELAY; tb<DELAY; t1+t2=DELAY;)



G - TOTALIZED ON DELAY

- Control is independent of unit power.
- When control turns on, delay time elapses before output turns on.
- Elapsed time totalizes through interuptions in control.
- The output remains on until the unit is reset either by removing power or applying the independent reset control.
- Elapsed time and output state are retained in memory in the event of a control interruption.

(t1+t2+t3=DELAY; ta<delay)

INDUSTRIAL SOLID STATE TIMER

MODEL 1094 PANEL MOUNT

KANSON ELECTRONICS, INC.

SPECIFICATIONS

INPUT

VOLTAGE:	100-240 V AC/DC, 24 VAC, 12-24 VDC
FREQUENCY:	50/60Hz (AC Models)
POWER CONSUMPTION:	2.5VA (AC Models), 2W (DC Models)
TRANSIENT PROTECTION:	MOV

OUTPUT

TYPE:	Electromechanical relay or transistor
MECHANICAL LIFE:	10,000,000 operations (Relay only)
ELECTRICAL LIFE:	Relay - 100,000 operations minimum (at full rated load) Transistor - 10,000,000 operations min.
RATING:	5A @ 240VAC (resistive)

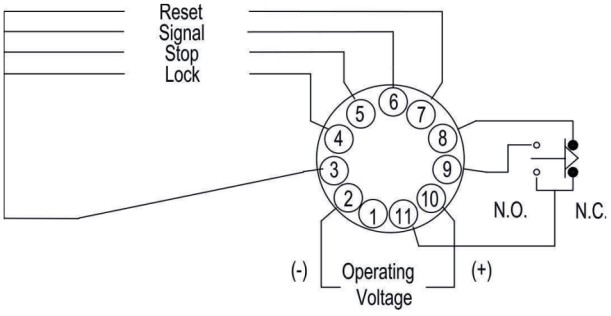
TIMING

TYPE:	Multifunction
REPEAT ACCURACY:	±0.005% of setting
RESET TIME:	20 msec
TIME RANGE:	0.001 seconds to 9999 hours

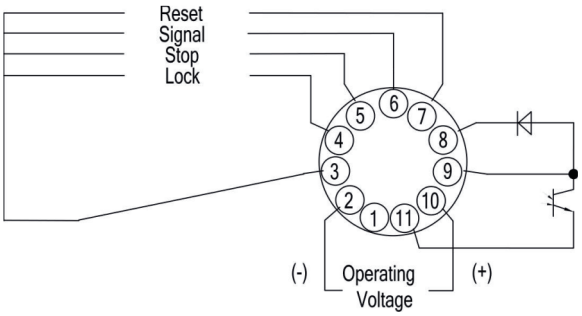
PHYSICAL

OPERATING TEMP:	-10° to 50° C (-14° to 122° F)
TIMING VARIATION VS. TEMP:	±0.005%
MOUNTING:	Plug-in or Panel Mount
TERMINATION:	11-pin socket
HOUSING:	Polycarbonate

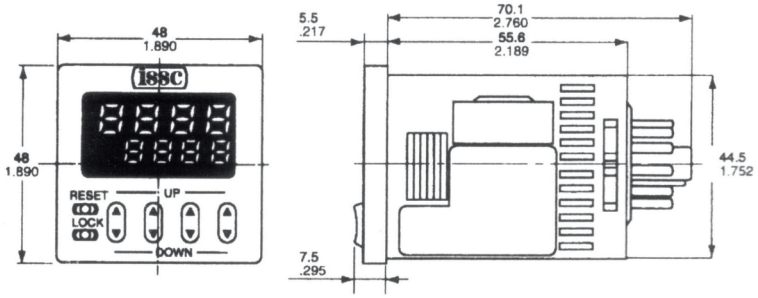
WIRING



*Polarity indicated for DC models only



DIMENSIONS INCH (MM)



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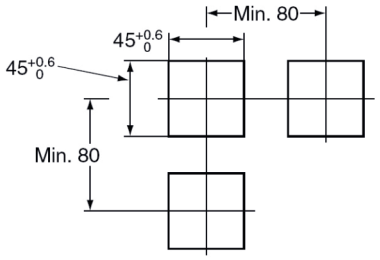
INDUSTRIAL SOLID STATE TIMER

MODEL 1094 PANEL MOUNT

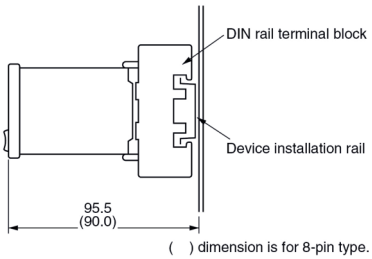
KANSON ELECTRONICS, INC.

MOUNTING MM

PANEL MOUNT
Panel mount clip RP-325 allows access to the timer face though the panel.



DIN RAIL MOUNT
11 Pin socket RP-322 has built in hold down clips and is DIN rail compatible.



ORDERING DATA

ORDERING CODE **1094 - 1 - P - 3 - A**

BASIC MODEL NUMBER
1094

INPUT VOLTAGE

1	100-240 VAC
2	12-24 VDC
3	24 VAC

TIME RANGE
P
0.001 sec to 9,999 hr

TIMING FUNCTIONS
3 Selectable

A	ON Delay - Power Control
A2	ON Delay - Power Control - Memory*
B	ON Delay
C	OFF Delay
D	Pulse Interval
E	Pulse ON Delay
F	Pulse Repeat Cycle
G	ON Delay - Totalizing

* A2 retains elapsed time during power off periods

OUTPUT

A	Relay SPDT
C	Open collector transistor

APPLICABLE ACCESSORIES
See accesory section for details

11 pin socket	RP-322
11 pin cable socket	RP-324
Panel mount clip	RP-325
Protective cover	RP-326

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INDUSTRIAL SOLID STATE TIMER

MODEL 1096 PANEL MOUNT

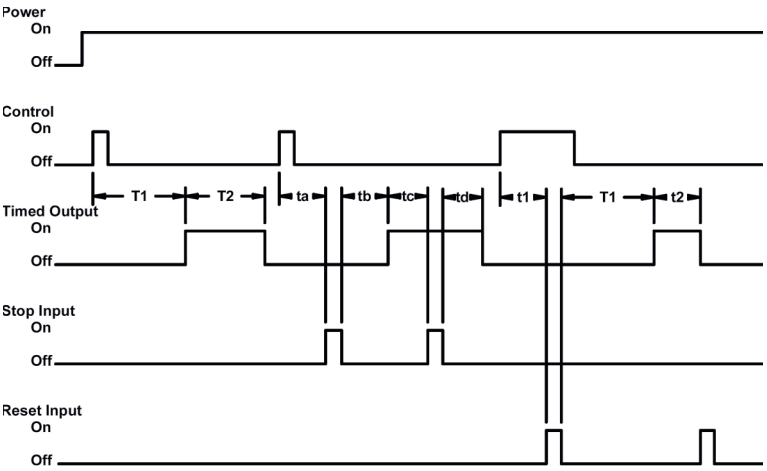
KANSON ELECTRONICS, INC.

Multifunction digital timer with dual time control.

Features:

- 6 timing functions.
- Control, stop and reset contacts independent of unit power.
- Time ranges from 0.001sec to 9,999 hr.
- 100-240 VAC, 24 VAC or 12-24 VDC input.
- 5 amp relay or open collector transistor output.
- EE-PROM memory - setting and elapsed delay.

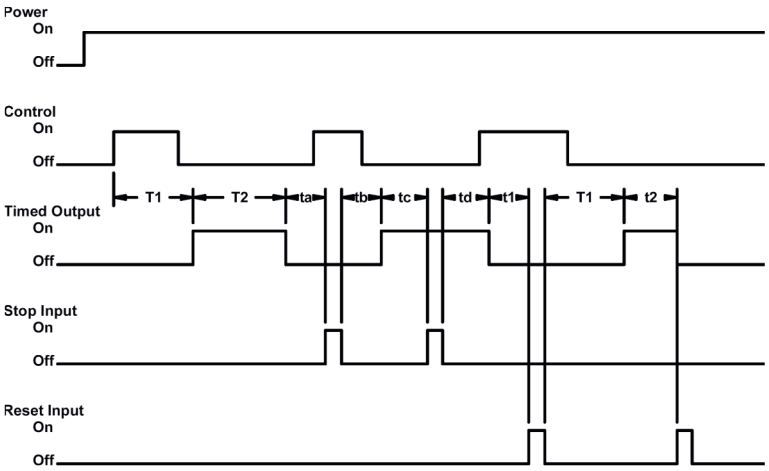
TIMING



PULSE A - ONE CYCLE

- Control is independent of unit power.
- When control turns on, T1 delay time elapses before output turns on.
- The T2 delay then starts and output turns back off once time has elapsed.
- Turning control on and off during delay time has no effect on the output or timing.

(ta+tb=T1; tc+td=T2; t1<T1; t2<T2)



PULSE B - REPEAT CYCLE START OFF

- Control is independent of unit power.
- When control turns on, the output remains off while T1 delay time elapses.
- The output then turns on while T2 delay time elapses.
- This cycle then repeats until power is removed from the unit or independent reset control is applied.
- Turning control on of off while cycling has no effect on the output or timing.

(ta+tb=T1; tc+td=T2; t1<T1; t2<T2)

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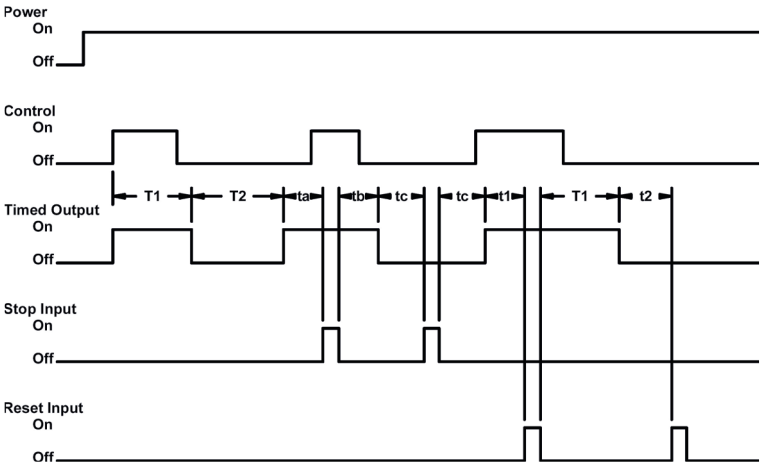
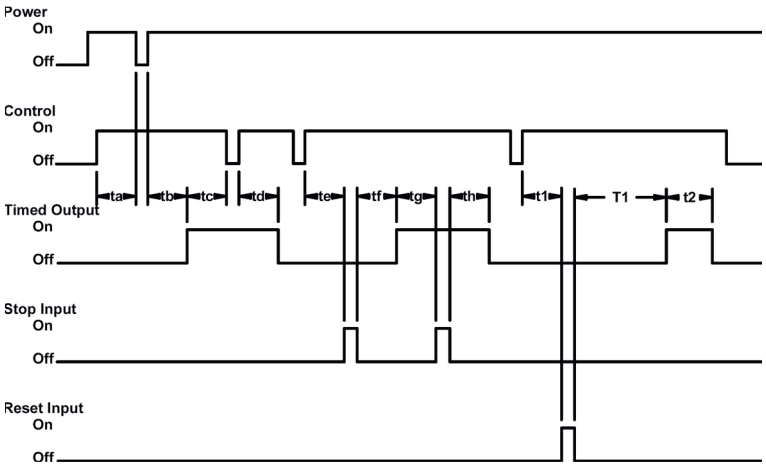
TIMING (CONT)



PULSE C - REPEAT CYCLE START ON

- Control is independent of unit power.
- When control turns on, the output turns on while T1 delay time elapses.
- The output then turns back off while T2 delay time elapses.
- This cycle then repeats until power is removed from the unit or independent reset control is applied.
- Turning control on and off while cycling has no effect on the output or timing.

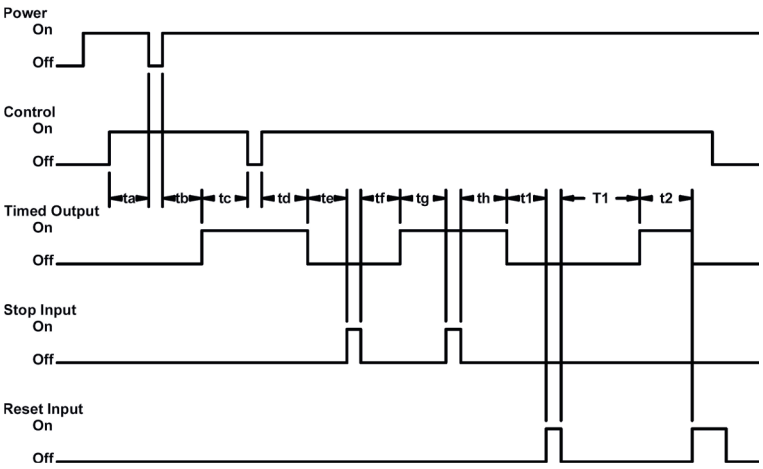
(ta+tb=T1; tc+td=T2; t1<T1; t2<T2)



TOTAL A - ONE CYCLE

- Control is independent of unit power.
- When control turns on, T1 delay time elapses before output turns on.
- The T2 delay time then starts and output turns back off once time has elapsed.
- Elapsed time and output state are retained in memory in the event of power or control interruption.

(ta+tb=T1; tc+td=T2; te+tf=T1; tg+th=T2; t1<T1; t2<T2)

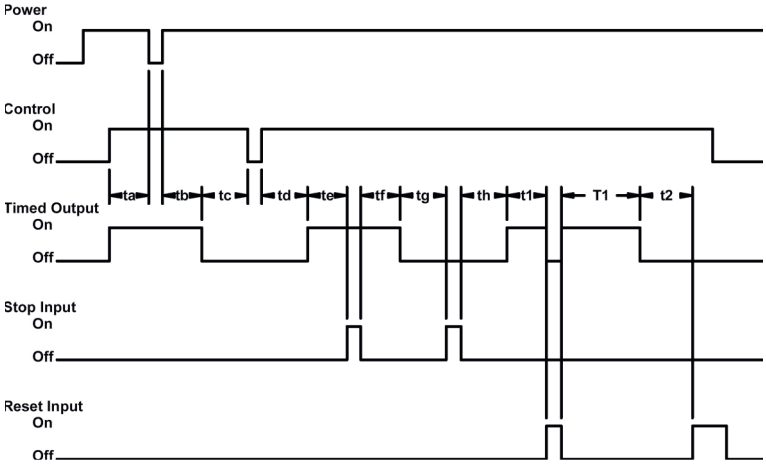


TOTAL B - REPEAT CYCLE START OFF

- Control is independent of unit power.
- When control turns on, the output turns on while T1 delay time elapses.
- The output then turns on while T2 delay time elapses.
- This cycle then repeats until an independent reset signal is applied.
- Elapsed time and output state are retained in memory in the event of power or control interruption.

(ta+t2=T1; tc+td=T2; te+tf=T1; tg+th=T2; t1<T1; t2<T2)

TIMING (CONT)



TOTAL C - REPEAT CYCLE START ON

- Control is independent of unit power.
- When control turns on, T1 delay time elapses before output turns on.
- The output turns back off while T2 delay time elapses.
- This cycle then repeats until an independent reset signal is applied.
- Elapsed time and output state are retained in memory in the event of power or control interruption.

(ta+t2=T1; tc+td=T2; te+tf=T1; tg+th=T2; t1<T1; t2<T2)

SPECIFICATIONS

INPUT

VOLTAGE:	100-240VAC/DC, 24VAC, 12-24VDC
FREQUENCY:	50/60Hz (AC Models)
POWER CONSUMPTION:	2.5VA (AC Models), 2.5W (DC Models)
TRANSIENT PROTECTION:	MOV

OUTPUT

TYPE:	Electromechanical relay or transistor
MECHANICAL LIFE:	10,000,000 operations (Relay only)
ELECTRICAL LIFE:	Relay - 100,000 operations minimum (at full rated load) Transistor - 10,000,000 operations min.
RATING:	Relay - 5A @ 240VAC (resistive) Transistor - 100mA, 30VDC maximum

TIMING

TYPE:	Multifunction
REPEAT ACCURACY:	±0.005% of setting
RESET TIME:	20 msec
TIME RANGE:	0.001 seconds to 9999 hours

PHYSICAL

OPERATING TEMP:	-10° to 50° C (-14° to 122° F)
TIMING VARIATION VS. TEMP:	±0.005%
MOUNTING:	Plug-in or Panel Mount
TERMINATION:	8-pin socket
HOUSING:	Polycarbonate

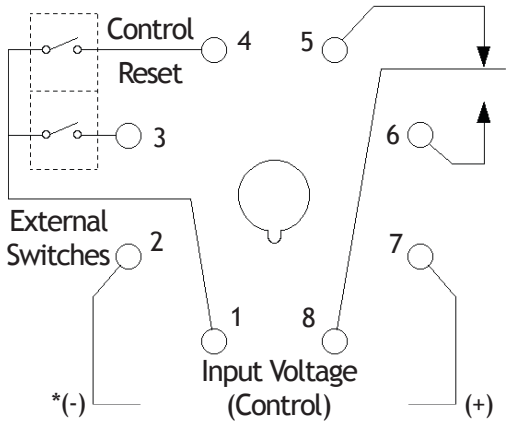
INDUSTRIAL SOLID STATE TIMER

MODEL 1096 PANEL MOUNT

KANSON ELECTRONICS, INC.

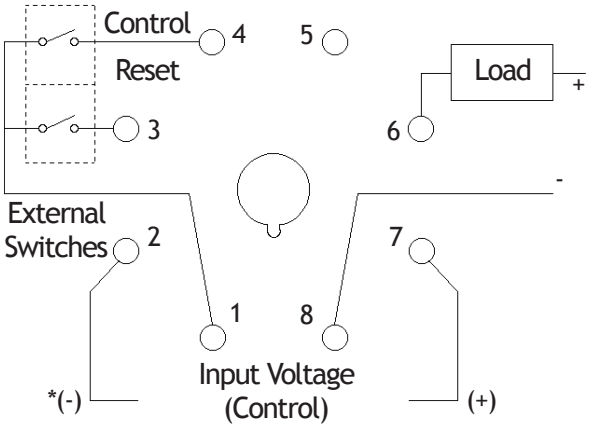
WIRING

Output A



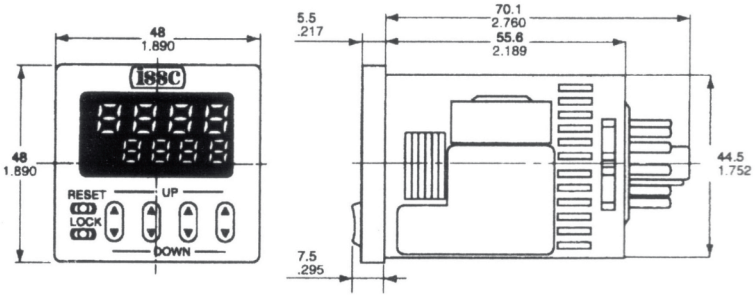
*Polarity indicated for DC models only

Output C



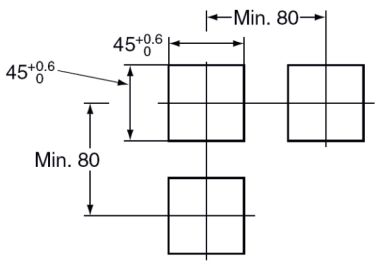
Do not apply voltage to pins 3 and 4. Control and Reset accomplished by isolated contact closure.

DIMENSIONS

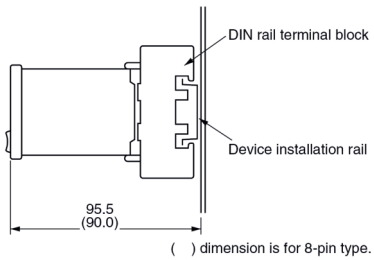


MOUNTING

PANEL MOUNT
Panel mount clip RP-325 allows access to the timer face though the panel.



DIN RAIL MOUNT
8 Pin socket RP-320 has built in hold down clips and is DIN rail compatible.



800-233-9354 or 931-796-3050 / Fax: 931-796-3956 / Web: http://www.issc-kanson.com

ORDERING DATA

ORDERING CODE **1096 - 1 - P - 3 - A**

BASIC MODEL NUMBER

1096

INPUT VOLTAGE

1	100-240 VAC
2	12-24 VDC
3	24 VAC

TIME RANGE

P

0.001 sec to 9,999 hr

TIMING FUNCTIONS

3	Selectable	
	Pulse A	One Cycle
	Pulse B	Repeat Cycle Start Off
	Pulse C	Repeat Cycle Start On
	Total A	One Cycle
	Total B	Repeat Cycle Start Off
	Total C	Repeat Cycle Start On

OUTPUT

A	Relay SPDT
C	Open collector transistor

APPLICABLE ACCESSORIES

See accesory section for details

8 pin socket	RP-320
8 pin revervible socket	RP-321
8 pin cable socket	RP-323
Panel mount clip	RP-325
Protective cover	RP-326

INDUSTRIAL SOLID STATE TIMER

MODEL 2110 BLOCK

KANSON ELECTRONICS, INC.

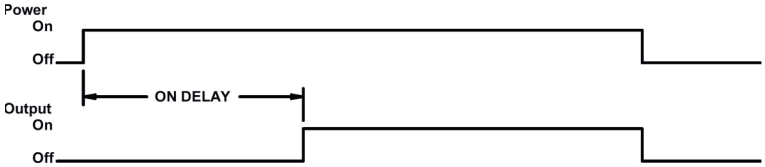
Compact encapsulated timer with simple two-wire installation.

Features:

- Time ranges selectable from 0.1 to 10230 seconds.
- 24 to 140 V AC/DC or 100 to 240 V AC/DC input.
- 1Amp solid state output.

ON DELAY

TIMING



ON DELAY

- Control is affected with power application.
- When power turns on, delay time elapses before timed output turns on. The timed output remains on until the unit is reset by removing power.

SPECIFICATIONS

INPUT

VOLTAGE:	24-140VAC/DC or 100-240VAC/DC
FREQUENCY:	50/60Hz or DC
TOLERANCE (VOLTAGE):	±10% of nominal
POWER CONSUMPTION:	1VA maximum
TRANSIENT PROTECTION:	Transient protected

OUTPUT

TYPE:	Solid State N.O.
RATING:	1A @ 240VAC/DC maximum (10A 1 cycle surge)
VOLTAGE DROP:	2.5V typical @ 1A

TIMING

TYPE:	On delay
REPEAT ACCURACY:	≤0.5% of setting
RESET TIME:	≤50 msec
TIME RANGE:	0.1 to 10230 seconds in 3 ranges
RANGE TOLERANCE:	±5% of setting
CONTROL:	Power applied to input initiates timing cycle

PHYSICAL

OPERATING TEMP:	-40° to 80° C (-40° to 176° F)
TIMING VARIATION VS. TEMP:	±5% maximum
MOUNTING:	Surface with #8 or #10 screws
TERMINATION:	0.250 inch male quick connect terminals
HOUSING:	Plastic

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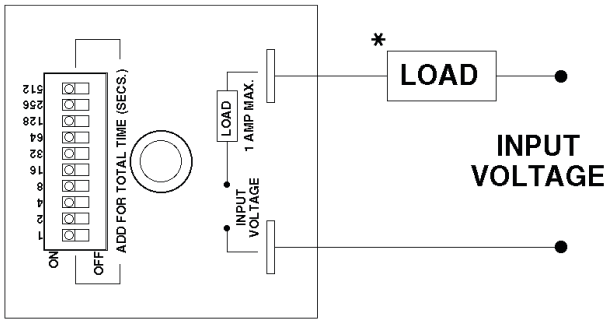
INDUSTRIAL SOLID STATE TIMER — MODEL 2110 BLOCK

KANSON ELECTRONICS, INC.

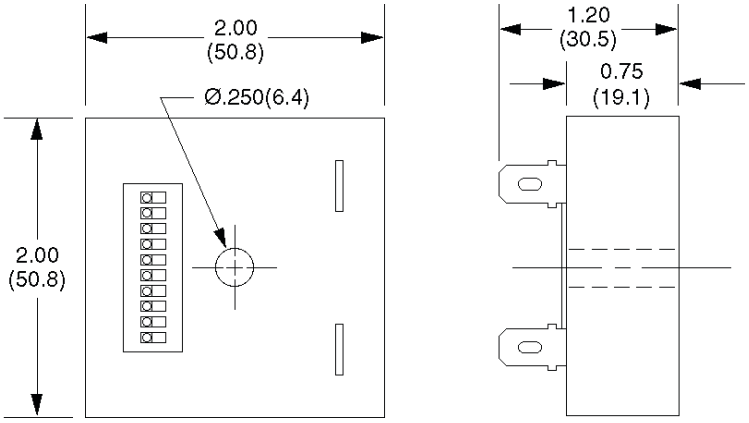
WIRING

Warning: Connection of power without a series load will cause permanent damage.



*Load may be connected to either side of line.

DIMENSIONS INCH (MM)



ORDERING DATA

ORDERING CODE 2110 - 1 - A - 1 - C

BASIC MODEL NUMBER

2110

INPUT VOLTAGE

1	24 - 140 V AC/DC
2	100 - 240 V AC/DC

TIME RANGE (seconds)

A	0.1 - 102.3
B	1.0 - 1023
C	10 - 10230

TIMING FUNCTION

1	ON Delay

OUTPUT

C	Solid state N.O. 1 amp maximum

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INDUSTRIAL SOLID STATE TIMER

MODEL 2115 BLOCK

KANSON ELECTRONICS, INC.

Compact encapsulated timer with a simple three-wire installation.

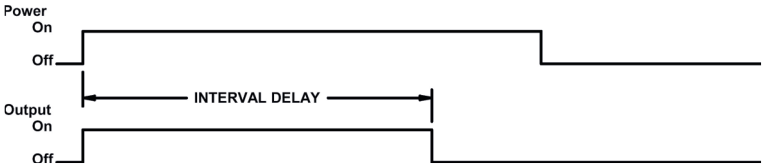
Features:

- Time ranges from 0.1 to 10230 seconds.
- 120 VAC or 240 VAC
- 1Amp solid state output.

UL File No. E50957 CSA File No. LR92518

INTERVAL

TIMING



INTERVAL

- Control is affected with power application.
- When power is applied, output turns on and remains on till delay time is elapsed.

SPECIFICATIONS

INPUT

VOLTAGE:	120VAC or 240VAC
FREQUENCY:	50/60Hz
TOLERANCE (VOLTAGE):	±15% of nominal
POWER CONSUMPTION:	1VA maximum
TRANSIENT PROTECTION:	Transient protected

OUTPUT

TYPE:	Solid State N.O.
RATING:	1A @ 240VAC/DC maximum (10A 1 cycle surge)
VOLTAGE DROP:	2.5V typical @ 1A

TIMING

MAINTAINED TYPE:	Interval
REPEAT ACCURACY:	≤0.5% of setting
RESET TIME:	≤50 msec
TIME RANGE:	0.1 to 10230 seconds in 3 ranges
RANGE TOLERANCE:	±5% of setting
CONTROL:	Power applied to input initiates timing cycle

PHYSICAL

OPERATING TEMP:	-40° to 60° C (-40° to 140° F)
TIMING VARIATION VS. TEMP:	±5% maximum
MOUNTING:	Surface with #8 or #10 screws
TERMINATION:	0.250 inch male quick connect terminals
HOUSING:	Plastic

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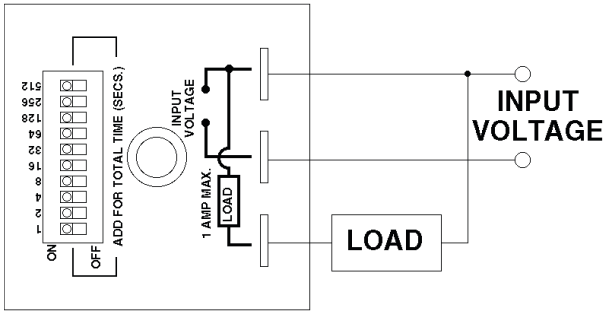
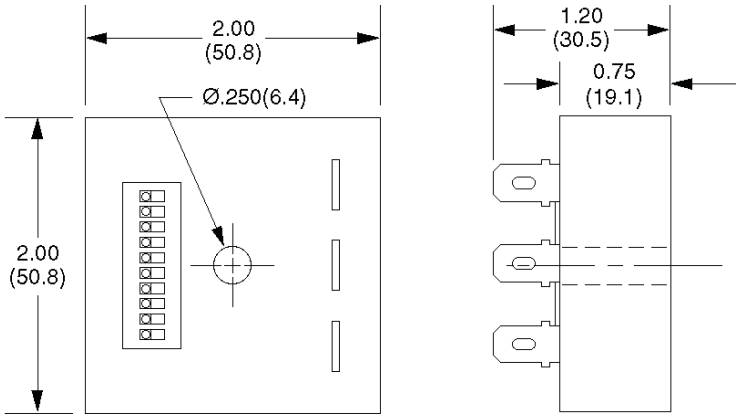
INDUSTRIAL SOLID STATE TIMER — MODEL 2115 BLOCK

KANSON ELECTRONICS, INC.

WIRING



DIMENSIONS INCH (MM)



ORDERING DATA

ORDERING CODE **2115 - 1 - B - 5 - C**

BASIC MODEL NUMBER
2110

INPUT VOLTAGE

1	120 VAC
2	240 VAC

TIME RANGE (seconds)

A	0.1 - 102.3
B	1.0 - 1023
C	10 - 10230

TIMING FUNCTION

5	Interval

OUTPUT

C	Solid state N.O. 1 amp maximum

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KANSON ELECTRONICS, INC.

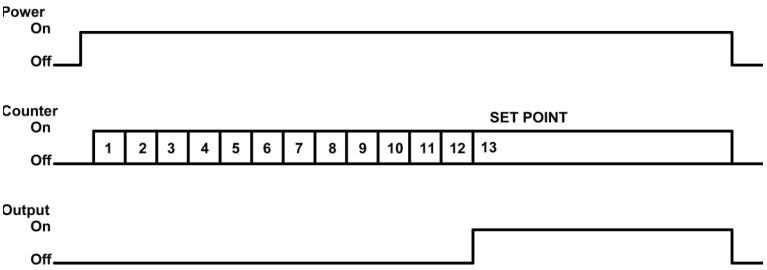
INDUSTRIAL SOLID STATE MODEL 1105C COUNTER PANEL MOUNT

Multifunction digital counter with dual input control.

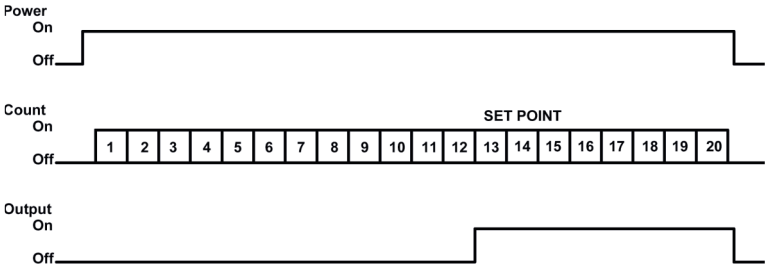
Features:

- 7 output control functions.
- 5 input modes.
- Both input and reset contacts independent of unit power.
- 100-240 VAC or 12-24 VDC input.
- 5 amp relay or open collector transistor output.
- Battery backed up memory.

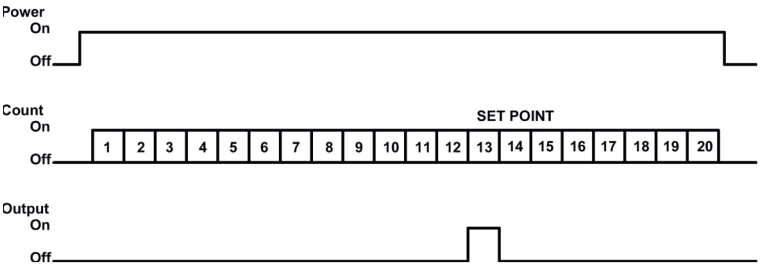
OUTPUT FUNCTIONS



HOLD A - Latched Output / Hold Count
- Control is independent of unit power.
- Upon counting to set value, output latches on and count input is inhibited.
- Output remains on until reset.

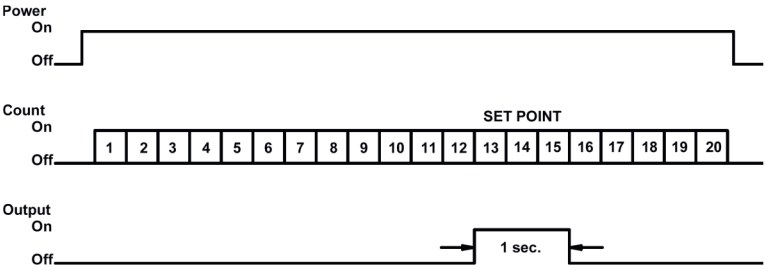


HOLD B - Latched Output / Over Count
- Control is independent of unit power.
- Upon counting to set value, output latches on and count continues to increment.
- Output remains on until reset.

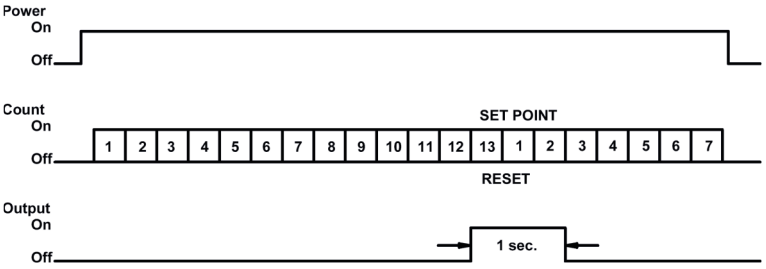


HOLD C - Latched Output(one count) / Over Count
- Control is independent of unit power.
- Upon counting to set value, output latches on.
- Output turns off at next count following set value.
- Count continues to increment.

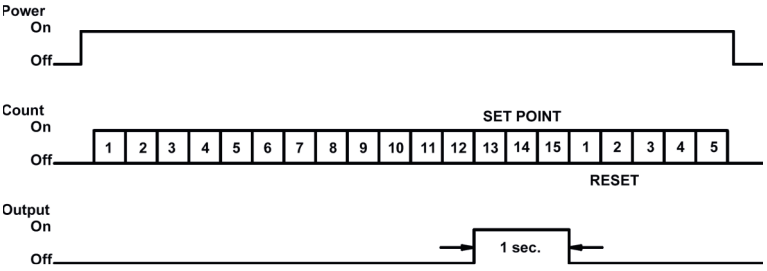
OUTPUT FUNCTIONS (CONT)



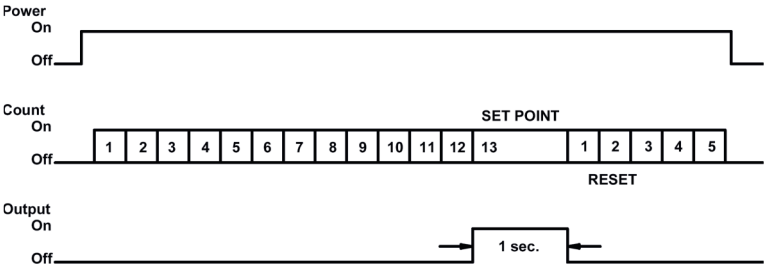
SHOT A - One shot / Continue Count
- Control is independent of unit power.
- Upon counting to set value, output turns on for approximately 1 second.
- Count continues to increment.



SHOT B - One Shot / Reset "ON"
- Control is independent of unit power.
- Upon conting to set value, output turns on for approximately 1 second and the count is automatically reset.
- Count may be continued from this point with no requirement for external reset.



SHOTC - One Shot / Reset "OFF"
- Control is independent of unit power.
- Upon counting to set value, output turns on for approximately 1 second.
- Count automatically resets at the same time the output turns off.



SHOT D - One Shot / Hold Count
- Control is independent of unit power.
- Upon counting to set value, output turns on for approximately 1 second.
- Count is inhibited while output is on.
- Count automatically resets at the same time the output turns off.

INDUSTRIAL SOLID STATE MODEL 1105C COUNTER PANEL MOUNT

KANSON ELECTRONICS, INC.

INPUT MODE

UP - Count up to set value.
- Input 1 is count input.
- Input 2 inhibits count input.

DOWN - Count down from set value
- Input 1 is count input.
- Input 2 inhibits count input.

DIR - Directional count - UP or DOWN
- Input 1 is count input.
- Input 2 off - count will go up.
- Input 2 on - count will go down.

IND - Independant inputs
- Input 1 counts up.
- Input 2 counts down.

PHASE - Phasing of inputs determines count direction
- If input 1 is phased ahead of input 2 - count is up.
- If input 2 is phased ahead of input 1 - count is down.

SPECIFICATIONS

INPUT

VOLTAGE:	100-240VAC/DC, 12-24VAC
FREQUENCY:	50/60Hz (AC Models)
POWER CONSUMPTION:	2.5VA (AC Models) 2.5W (DC Models)
TRANSIENT PROTECTION:	MOV

OUTPUT

TYPE:	Electromechanical relay or transistor
MECHANICAL LIFE:	10,000,000 operations (Relay only)
ELECTRICAL LIFE:	Relay - 100,000 operations minimum (at full rated load) Transistor - 10,000,000 operations min.
RATING:	Relay - 5A @ 240VAC (resistive) Transistor - 100mA, 30VDC maximum

COUNTER OUTPUT

MODES:	7 (Programmable)
DISPLAY:	6 digit LCD

CONTROL INPUT

TYPE:	Multifunction
SPEED:	30/sec. or 5000/sec.
NUMBER OF INPUTS:	Two
INPUT METHOD:	Isolated contact or transistor

PHYSICAL

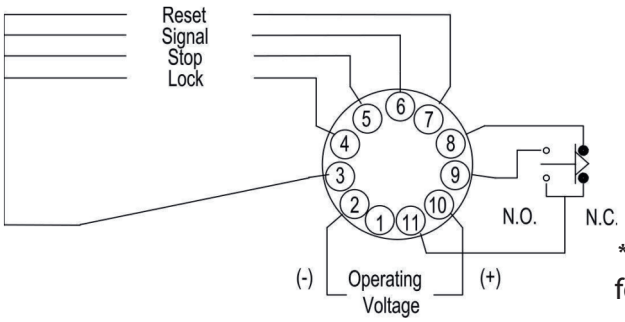
OPERATING TEMP:	-10° to 50° C (-14° to 122° F)
MOUNTING:	Plug-in or Panel Mount
TERMINATION:	Relay Output - 11-pin socket, Transistor Output - 8-pin socket
HOUSING:	Polycarbonate

INDUSTRIAL SOLID STATE MODEL 1105C COUNTER PANEL MOUNT

KANSON ELECTRONICS, INC.

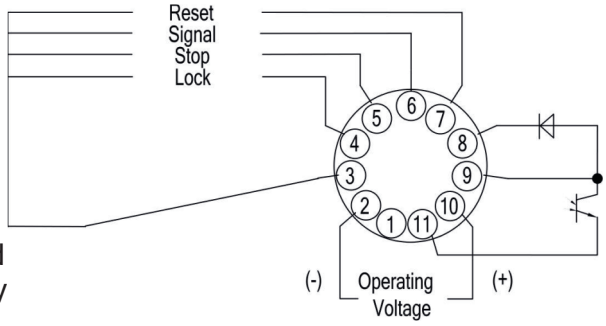
WIRING

Output A



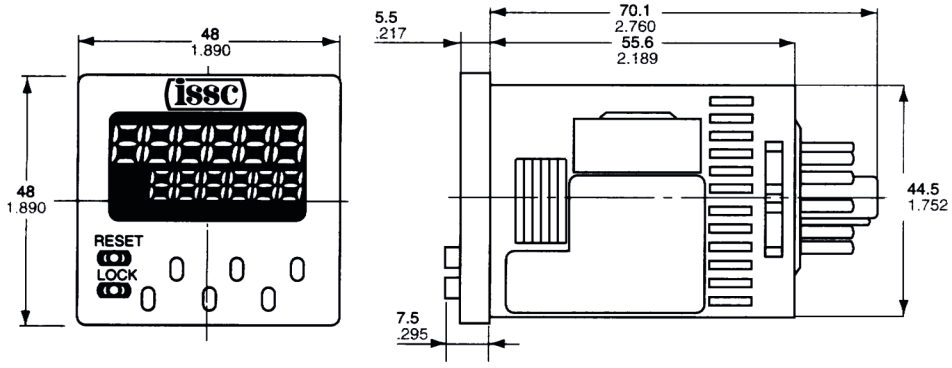
*Polarity indicated for DC models only

Output C



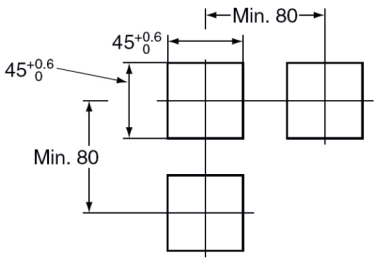
Do not apply voltage to pins 5,6,7. Reset and Count inputs accomplished by isolated contact closure.

DIMENSIONS INCH (MM)

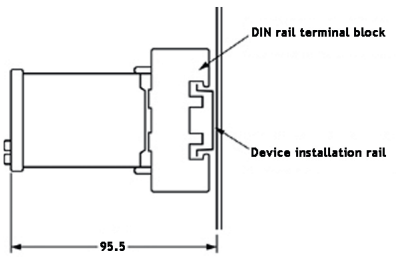


MOUNTING MM

PANEL MOUNT
Panel mount clip RP-325 allows access to the timer face though the panel.



DIN RAIL MOUNT
8 Pin socket RP-320 has built in hold down clips and is DIN rail compatible.



ORDERING DATA

ORDERING CODE **1105C - 1 - P - 3 - A**

BASIC MODEL NUMBER

1105C

INPUT VOLTAGE

1	100-240 VAC
2	12-24 VDC

INPUT MODE

P

UP	Counts up
DOWN	Counts down
DIR	Directional count
IND	Independant inputs
PHASE	Phased inputs

TIMING FUNCTIONS

3 Selectable

HOLD A	Latched Output / Hold Count
HOLD B	Latched Output / Over Count
HOLD C	Latched Output (one count) / One Count
SHOT A	One Shot / Continue Count
SHOT B	One Shot / Reset "ON"
SHOT C	One Shot / Reset "OFF"
SHOT D	One Shot / Hold Count

OUTPUT

A	Relay SPDT
C	Open collector transistor

APPLICABLE ACCESSORIES

See accesory section for details

11 pin socket	RP-322
11 pin cable socket	RP-324
Panel mount clip	RP-325
Protective cover	RP-326

INDUSTRIAL SOLID STATE HOURMETER MODEL 1120H PANEL MOUNT

KANSON ELECTRONICS, INC.

The **Model** 1120H Features:

- Ideal for scheduling routine maintanance.
- DC powerd.
- Suitable for harsh environments IP66 compliant.
- High performance compact sync. motor.
- Ultra-accurate quartz oscillator.

SPECIFICATIONS

INPUT

VOLTAGE: 12 or 24 VDC
POWER CONSUMPTION: 1.5 W at 25°C

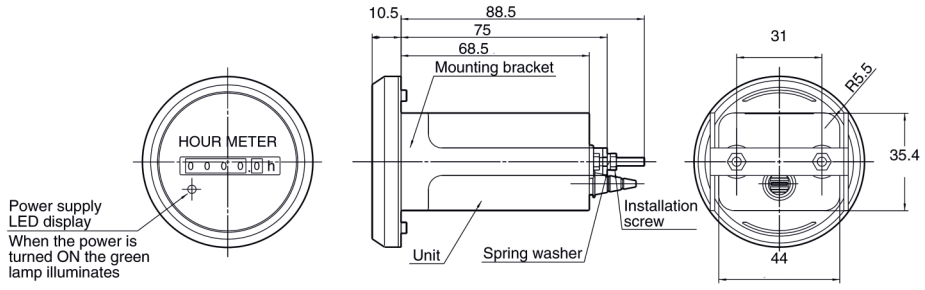
TIMING

RANGE: 0.0 to 9999.9 Hours
MINIMUM DISPLAY: 6 Minutes

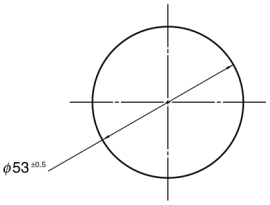
PHYSICAL

VIBRATION RESISTANCE: 10 to 55 Hz: 1 cycle/min double amplitude of 0.5 mm (10 min on 3 axes)
SHOCK RESISTANCE: Functional: Min. 98m/s^2 (4 times on 3 axes)
Destructive: 980m/s^2 (4 times on 3 axes)
OPERATING TEMP: -20° to 60° C (-4° to 140° F)
OPERATING HUMIDITY: 45% to 85% relative humidity
TERMINATION: Screw terminals
HOUSING: Plastic - IP66 compliant at panel face

DIMENSIONS MM



Panel cutout dimensions



ORDERING DATA

ORDERING CODE **1120H - 2**

BASIC MODEL NUMBER
1120H

INPUT VOLTAGE

1	12 VDC
2	24 VDC

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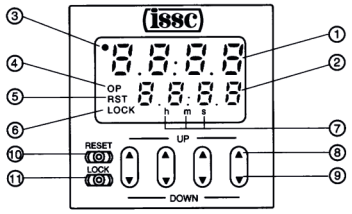
KANSON ELECTRONICS, INC.

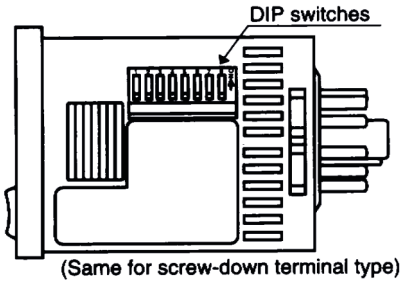
DIGITAL CONTROLLER PROGRAMMING INSTRUCTIONS

1094 PROGRAMMING

① Elapsed time display
② Set time display
③ Time delay indicator
④ Controlled output indicator
⑤ Reset indicator
⑥ Lock indicator
⑦ Time units display



⑧ UP keys
Changes the corresponding digit of the set time in the addition direction (upwards)
⑨ DOWN keys
Changes the corresponding digit of the set time in the subtraction direction (downwards)
⑩ RESET switch
Resets the elapsed time and the output
⑪ LOCK switch
Locks the operation of all keys on the unit



(Same for screw-down terminal type)

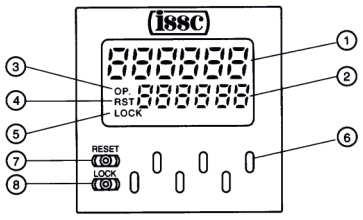
DIP Switches:

- 1, 2 and 3 Select from 8 output function options.
- 4 Set minimum input signal length (reset, signal, stop and lock).
- 5 Sets direction of time delay (addition or subtraction).
- 6, 7 and 8 Select T1 time range. (0.001 s to 9.999 s thru 0.1 h to 999.9h)

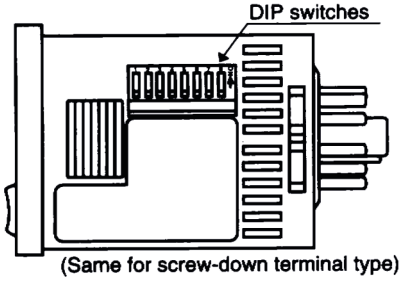
Set dip switches before installation!

1105C PROGRAMMING

① Counter display
② Set value display
③ Controlled output indicator
④ Reset indicator
⑤ Lock indicator



⑥ UP keys
Increases the value of the corresponding digit of the set value display
⑦ RESET switch
Resets the set value and the output
⑧ LOCK switch
Locks the operation of all keys on the unit



(Same for screw-down terminal type)

DIP Switches:

- 1, 2 and 3 Select from 7 output function options.
- 4 Set minimum input signal length (reset, input 1, input 2 and lock).
- 5 Sets maximum count speed (30 Hz or 5kHz).
- 6, 7 and 8 Select from 5 input options.

Set dip switches before installation!

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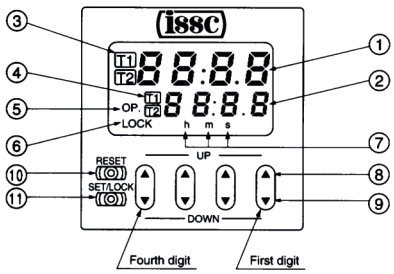
KANSON ELECTRONICS, INC.

DIGITAL CONTROLLER PROGRAMMING INSTRUCTIONS

1096 PROGRAMMING

① Elapsed time display
② Set time display
③ T_1/T_2 operation indicator
④ T_1/T_2 setting value selectable indicator
⑤ Controlled output indicator
⑥ Lock indicator
⑦ Time units display

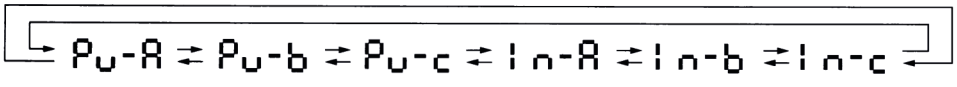


⑧ UP keys
Changes the corresponding digit of the set time in the addition direction (upwards)
⑨ DOWN keys
Changes the corresponding digit of the set time in the subtraction direction (downwards)
⑩ RESET switch
Resets the elapsed time and the output
⑪ Set/lock switch
Changes over the display between T_1/T_2 settings, sets the operational mode, checks the operational mode and locks the operation of each key (such as up, down or reset key).

Checking Timing Function:

Hold down (SET/LOCK).
Toggle 2nd key up or down.
Release (SET/LOCK).
Display returns to normal after two seconds.

Timing function representations:



Pulse One Cycle	Pulse Repeat OFF-start	Pulse Repeat ON-start	Total One Cycle	Total Repeat OFF-start	Total Repeat ON-start

Changing Timing Function:

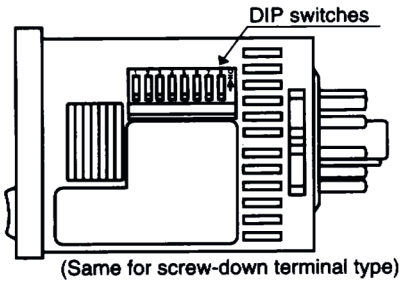
Hold down (SET/LOCK).
Toggle 1st key up or down.
Release (SET/LOCK).
Toggle 1st key to select desired timing function.
Press (RESET) key to accept timing function.
Procedure is independant of T1 or T2.

Setting T1 and T2:

Press (SET/LOCK) key to switch between T1 and T2.
Time is set using the toggle keys on the front of the timer.
Each key is for the corresponding digit on the display.

Setting The Lock:

Hold down (SET/LOCK).
Toggle 4th key up or down.
Release (SET/LOCK).
Lock is set.
Repeat procedure to unlock.



(Same for screw-down terminal type)

DIP Switches:

- 1, 2 and 3 Select T1 time range.
  (0.001 s to 9.999 s thru 0.1 h to 999.9h)
- 4 Set minimum input signal length
  (reset, signal, and lock).
- 5 Sets direction of time delay
  (addition or subtraction).
- 6, 7 and 8 Select T2 time range.
  (0.001 s to 9.999 s thru 0.1 h to 999.9h)

Set dip switches before installation!

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