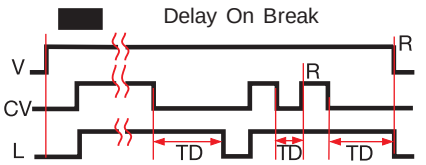
Delay On Break (Release)
EISB ISO-Timer
Timing Module

Discontinued Product

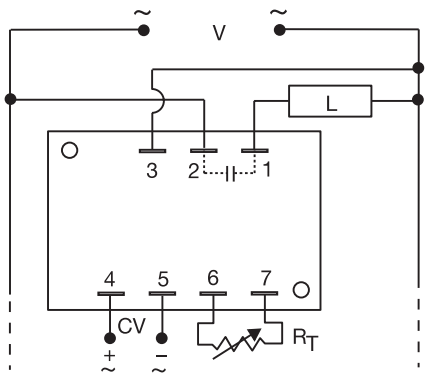
- Optical Isolation Between Input and Output
- Wide Selection of Input and Output Voltage Ranges
- 1 A Solid State Output
- Fixed or Adjustable Delays From 0.2 s ... 1000 m in 6 ranges
- 0.5% Repeat Accuracy

Description
Optical isolation, combined with solid state timing, gives the ISO-Timers a distinct advantage in many applications. Digital circuitry provides long or short delays with accuracy and stability over a wide voltage and temperature range. Electrical isolation means the EISB can be initiated from a separate voltage source. Because of the design of the initiate circuit, the operation of a separate load can be used to initiate the EISB.

Operation
Input voltage must be applied prior to and during timing. The output is de-energized. Upon application of control voltage, the output energizes. The time delay begins when control voltage is removed. The output remains energized during timing. At the end of the time delay, the output is de-energized.
Reset: If the control voltage is re-applied during timing, the time delay is reset to zero. Reset also occurs when the input voltage is removed.

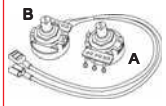
Function


V = Voltage L = Load R = Reset
CV = Control Voltage TD = Time Delay
—⌇— = Undefined time

Connection


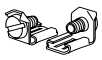
R_T is used when external adjustment is ordered.
CV = Control Voltage

Time Delay	VTP P/N
0 – 0.2 ... 10 s	VTP5C
1 – 1 ... 100 s	VTP5G
2 – 10 ... 1000 s	VTP5K
3 – 0.1 ... 10 m	VTP5N
4 – 1 ... 100 m	VTP5P
5 – 10 ... 1000 m	VTP5R

Accessories


External adjust potentiometer P/Ns:
P1004-13 (fig A)
P1004-13-X (fig B)


Female quick connect P/N:
P1015-64 (AWG 14/16)


Quick connect to screw adaptor P/N: **P1015-18**


Versa-knob P/N: **P0700-7**

Plug-on adjustment module P/N: **VTP(X)(X)**

See accessory pages for specifications.

Ordering Table

EISB Series	X Input	X Control Voltage	X Adjustment	X Time Delay *
	2 - 24 V AC	D -19 ... 144 V AC	1 - Fixed	0 - 0.2 ... 10 s
	4 - 120 V AC	E - 88 ... 288 V AC	2 - External Adjust	1 - 1 ... 100 s
	6 - 230 V AC	F - 6 ... 18 V DC		2 - 10 ... 1000 s
				3 - 0.1 ... 10 m
				4 - 1 ... 100 m
				5 - 10 ... 1000 m

Example P/N: EISB4D22 Fixed: EISB4D1100S

* If Fixed Delay is selected, insert delay [0.2 ... 1000] followed by (S) sec. or [0.1 ... 1000] (M) min.

EISB2B01 02.07.05

Delay On Break (Release)
EISB ISO-Timer
Timing Module

Technical Data

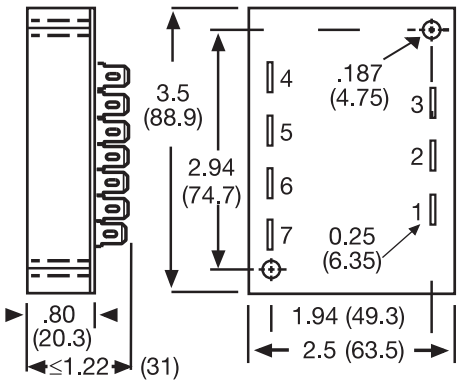
Time Delay	
Type	Digital integrated circuitry
Range	0.2 s ... 1000 m in 6 adjustable ranges or fixed
Repeat Accuracy	+/-0.5%
Time Delay vs. Temperature & Voltage	+/-2%
Tolerance (Factory Calibration)	Range 0: +/-2% or 50 ms, whichever is greater Range 1-5: +/-1% or 50 ms, whichever is greater
Reset Time	AC control voltages: ≤ 300 ms DC control voltages: ≤ 5 ms
Initiate Time	AC control voltages: ≤ 30 ms DC control voltages: ≤ 2 ms
Input	
Voltage	24, 120, or 230 V AC
Tolerance	+/- 20%
Line Frequency	50 ... 60 Hz
Control Voltage	6 ... 288 V in 3 ranges
Output	
Type	Solid state
Form	Normally Open, closed before and during timing
Rating	1 A steady state, 10 A inrush at 60℃
Voltage Drop	AC - ≅ 2.5 V at 1 A
Protection	
Circuitry	Encapsulated
Dielectric Breakdown	≥ 2000 V RMS terminals to mounting surface
Insulation Resistance	≥ 100 MΩ
Mechanical	
Mounting	Surface mount with two #6 (M3.5x0.6) screws
Termination	0.25 in. (6.35 mm) male quick connect terminals
Environmental	
Operating Temperature	-40℃ ... +75℃
Storage Temperature	-40℃ ... +85℃
Humidity	95% relative, non-condensing
Weight	≅ 4.8 oz (136 g)

5

R_T Selection Chart						
Desired Time Delay*						R_T
Seconds			Minutes			
0	1	2	3	4	5	Megohm
0.2	1	10	0.1	1	10	0.0
1	10	100	1	10	100	0.5
2	20	200	2	20	200	1.0
3	30	300	3	30	300	1.5
4	40	400	4	40	400	2.0
5	50	500	5	50	500	2.5
6	60	600	6	60	600	3.0
7	70	700	7	70	700	3.5
8	80	800	8	80	800	4.0
9	90	900	9	90	900	4.5
10	100	1000	10	100	1000	5.0

* When selecting an external R_T add at least 11% for tolerance of unit and the R_T.

Mechanical View



Inches (Millimeters)