

Single Shot (Pulse Former) **TSS Series Timing Module**

on a 35mm DIN rail using the P1023-20 accessory adaptor.

Voltage must be applied before and during timing. Upon momentary or maintained closure of the initiate switch,

the output energizes for a measured interval of time. At the end of the delay, the output de-energizes. Opening

or reclosing the initiate switch during timing has no affect

on the time delay. The output will energize if the initiate

Reset: Reset occurs when the time delay is complete

and the initiate switch opens. Loss of input voltage resets

switch is closed when input voltage is applied.

Description The TSS is a totally solid state timing module. Its 1 A rated solid state output provides an excellent method of

Operation



- Expands or Decreases Switch Closures
- Momentary or Maintained Initiate Switch
- Totally Solid State

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- Encapsulated to Protect Against Shock & Vibration
- Fixed or Adjustable Delays From 0.05 ... 600 s in 4 Ranges
- +/-2% Repeat Accuracy ■ +/-5% Factory Calibration



Accessories

External adjust potentiometer . P/Ns: P1004-95 (fig A)

P1004-95-X (fig B)

Mounting bracket P/N: P1023-6

Female quick



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



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

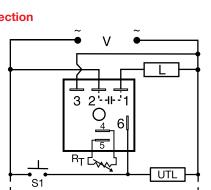
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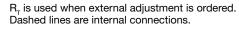


C103PM (AI)

DIN rail adaptor P/N: P1023-20

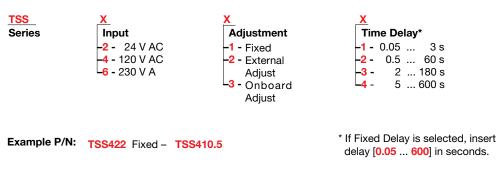
See accessory pages for specifications.





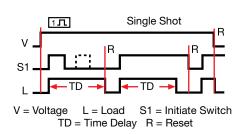
S1 = Initiate Switch L = Timed Load UTL = Optional Untimed Load

Ordering Table



Function

time control for exposures, dispensing, or for increasing or decreasing a switch closure. Time delays from 0.05 to 600 seconds, in 4 ranges, cover 90% of all OEM applications. Factory calibration of fixed delays is +/-5% and the repeat accuracy is +/-2%. The TSS can be surface mounted with a single screw, or snapped



Connection

the time delay and output.



Low Voltage Products & Systems

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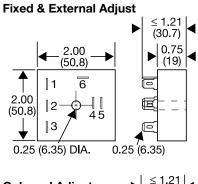
Technical Data

Time Delay Range Repeat Accuracy Tolerance (Factory Calibration) Reset Time Initiate Time Time Delay vs. Temperature & Voltage	0.05 s 600 s in 4 adjustable ranges or fixed +/-2% or 20 ms, whichever is greater ≤ +/-5% ≤ 150 ms ≤ 20 ms ≤ +/-10%
Input Voltage Tolerance Line Frequency Power Consumption	24, 120, or 230 V AC +/-20% 50 60 Hz ≤ 2 VA
Output Type Form Maximum Load Current Off State Leakage Current Voltage Drop	Solid state Normally Open, closed during timing 1 A steady state, 10 A inrush at 60°C \cong 5 mA at 230 V AC \cong 2.5 V at 1 A
Protection Circuitry Dielectric Breakdown Insulation Resistance	Encapsulated \geq 2000 V RMS terminals to mounting surface \geq 100 M Ω
Mechanical Mounting Package Termination	Surface mount with one #10 (M5 x 0.8) screw $2 \times 2 \times 1.21$ in. (50.8 x 50.8 x 30.7 mm) 0.25 in. (6.35 mm) male quick connect terminals
Environmental Operating Temperature Storage Temperature Humidity Weight	- 40°C +75°C - 40°C +85°C 95% relative, non-condensing ≅ 2.4 oz (68 g)

R _T Selection Chart					
Desired Time Delay*				R _T	
Seconds				11	
1	2	3	4	Kohms	
0.05	0.5	2	5	0	
0.3	6	20	60	10	
0.6	12	38	120	20	
0.9	18	55	180	30	
1.2	24	73	240	40	
1.5	30	90	300	50	
1.8	36	108	360	60	
2.1	42	126	420	70	
2.4	48	144	480	80	
2.7	54	162	540	90	
3.0	60	180	600	100	

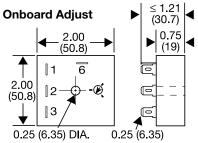
* When selecting an external R_T add at least 20% for tolerance of unit and the R_T .

Mechanical View



Dedicated timers

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Inches (Millimeters)