Delay On Make (Operate)

MSM PC Mount Timer

Timing Module

Description







- Printed Circuit Mount or Wire Leads
- Fixed Delays from 0.05 ... 180 s
- +/- 5% Repeat Accuracy
- +/- 15% Factory Calibration
- Two-Wire Series Connection with the Load
- Fast Reset

Approvals: 🔁 🚯



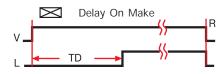
The MSM replaces bi-metal type timing with reliable solid state circuitry. There are no moving parts to arc or wear. It is a cost effective solution for OEM designers. It is available for printed circuit board mounting or surface mounting with a removeable bracket and wire leads. The MSM offers immediate reset on removal of

Operation

The time delay begins upon application of input voltage. The output is de-energized before and during the time delay. At the end of the time delay, the output energizes and remains energized until input voltage is removed.

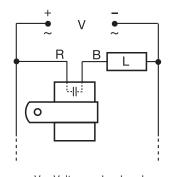
Reset: Removing input voltage resets the time delay and output.

Function



V = Voltage R = ResetL = Load

Connection



V = Voltage L = Load R = Red Wire B = Black Wire

Ordering Table

MSM Fixed Time Delay Wire Length Inches (mm) Series Wire Type Input -**1** - 0.250 (6.35)-1 - 12 V DC **-0.05** ... **180** s **-2** - 0.375 (9.53)-2 - 24 V AC -P - PC Mount -3 - 0.500 (12.70) Specify fixed time -3 - 24 V DC **-4** - 0.625 (15.88) in seconds -4 - 120 V AC **-5** - 0.750 (19.05) └**6** - 230 V AC -W - Stranded **-6** - 6.0 (152.4)Wire Leads -**7** - 7.0 (177.8)

Example P/N: MSM47P3, MSM610W8

5.32

Low Voltage Products & Systems

(203.2)

(228.6)

-8 - **8**.0

-9 - 9.0

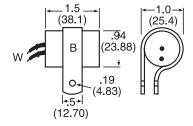
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Technical Data

Time Delay Type Range Repeat Accuracy Tolerance (Factory Calibration) Recycle Time Time Delay vs. Temperature & Voltage	Analog Circuitry 0.05 180 s fixed +/-5% +/-15% ≤ 75 ms +/-15%
Input Voltage Tolerance Line Frequency	12 or 24 V DC; 24, 120, or 230 V AC +/-10% 50 60 Hz
Output Type Form Maximum Load Current Minimum Holding Current Voltage Drop	Solid State Normally Open, open during timing 0.5 A steady state 25°C; 0.25 A steady state 60°C 40 mA ≅ 2.5 V at 0.5 A
Protection Circuitry Dielectric Breakdown Insulation Resistance Polarity	Encapsulated \geq 2000 V RMS input to mounting surface \geq 100 M Ω DC units are reverse polarity protected
Mechanical Mounting	 a. PC Mount 14 AWG (2.087mm²) wires (Can be inserted in AMP Miniature Spring Socket #645980-1) b. Stranded 18 AWG wire leads (0.933 mm²) with mounting bracket
Environmental Operation/Storage Temperature Humidity Weight	-20°C +60°C / -30°C +85°C 95% relative, non-condensing P: ≅ 1.1 oz (31.2 g) W: ≅ 1.2 oz (34 g)

Mechanical View



Stranded Wire Leads

Inches (Millimeters)

See Ordering Table for wire length

W = 18 AWG (0.82 mm²) wires B = Removable mounting bracket P = 14 AWG (2.087 mm²) wires