

Delay On Make/Delay On Break

TDMB Digi-Set

Time Delay Relay

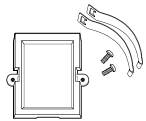


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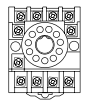
- Switch Settable Time Delays From 0.1 s ... 10,230 s in 3 Ranges
- +/-2% Setting Accuracy
- +/-0.1% Repeat Accuracy
- SPDT or DPDT Output Relay
- 10 A Output Contacts

Approvals:

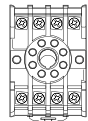
Accessories



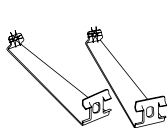
Panel mount kit
P/N: **BZ1**



11 pin socket
P/N: **NDS-11**



Octal
8 pin socket
P/N: **NDS-8**



Hold down clips
P/Ns:
PSC8 (NDS-8)
PSC11 (NDS-11)

Description

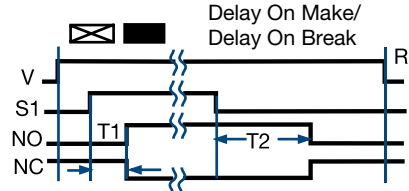
The TDMB combines both delay on make and delay on break functions into one plug-in package. Selection of the time period is accomplished with dual switches, one for the ON delay and the other for the OFF delay. SPDT or DPDT output options provide isolated, 10 A switching capability.

Operation

Input voltage must be applied at all times. The output relay is de-energized. Upon closure of the initiate switch, the green LED glows and the delay on make time delay (T1) begins. At the end of T1, the output relay energizes and the red LED glows. When the initiate switch opens, the green LED turns OFF and the delay on break time delay (T2) begins. At the end of T2, the output relay de-energizes and the red LED turns OFF.

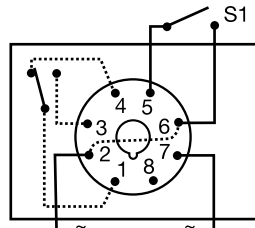
Reset: Removing input voltage resets time delay and output. Opening the initiate switch during the delay on make delay, resets T1. Closing the initiate switch during the delay on break delay, resets T2.

Function



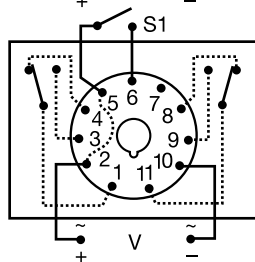
V = Voltage S1 = Switch Initiate R = Reset
NO = Normally Open NC = Normally Closed
T1 = Delay On Make Time T2 = Delay On Break Time
— = Undefined time

Connection



8 Pin Octal SPDT

Relay contacts are isolated. Dashed lines are internal connections.



11 Pin DPDT
(P/N ends with D)

Available Models-

- | | | |
|----------|-----------|----------|
| •TDMB411 | •TDMB411D | TDMB413D |
| •TDMB422 | •TDMB422D | TDMB423 |
| TDMB622 | | |

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Ordering Table

TDMB Series	X Input	X Delay On Make	X Delay On Break	X Type Plug/Output Form
	A - 24... 240 V AC/DC	1 - 0.1...102.3 s in 0.1 s increments	1 - 0.1...102.3 s in 0.1 s increments	D - 11 Pin Plug DPDT
	D - 12... 48 V DC	2 - 1...1023 s in 1 s increments	2 - 1...1023 s in 1 s increments	-Blank - Octal Plug (8 Pin) SPDT
	1 - 12 V DC	3 - 10...10230 s in 10 s increments	3 - 10...10230 s in 10 s increments	
	2 - 24 V AC			
	3 - 24 V DC			
	4 - 120 V AC			
	5 - 110 V DC			
	6 - 230 V AC			

NOTE: Options A & D qualify for Quickship delivery; grayed options require standard lead time.

Example P/N: **TDMBA12** = 24-240 V, 0.1 to 102.3 s DOM; 1 to 1023 s DOB, 8 pin connection base
TDMBD21D = 12-48V DC, 1 to 1023 s DOM; 0.1 to 102.3 s DOB, 11 pin connection base

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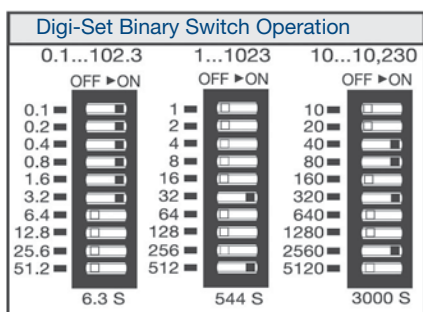
Time Delay Relay

Dedicated
timers

Technical Data

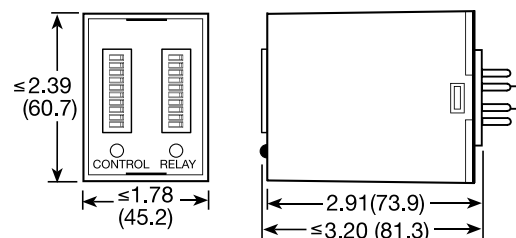
Time Delay Type Range**	Microcontroller Circuitry 0.1 ... 102.3 s in 0.1 s increments 1 ... 1023 s in 1 s increments 10 ... 10,230 s in 10 s increments	**For CE approved applications, power must be removed from the unit when a switch position is changed.
Repeat Accuracy Setting Accuracy Reset Time Time Delay vs. Temperature & Voltage Control LED Indicator	+/-0.1% or 20 ms, whichever is greater ≤ +/-2% or 50 ms, whichever is greater ≤ 150 ms ≤ +/-2% Green; ON when the initiate switch is closed	
Input Voltage Tolerance 12 V DC & 24 V DC/AC 110 ... 230 V AC/DC Line Frequency / DC Ripple Power Consumption	12 or 24 V DC; 24, 120, or 230 V AC; 24... 240 V AC/DC; 12... 48 V DC -15% ... +20% -20% ... +10% 50 ... 60 Hz / ≤ 10% AC ≤ 2 VA; DC ≤ 2 W	
Output Type Form Rating Life Max. Switching Voltage Relay LED Indicator	Electromechanical relay SPDT or DPDT 10 A resistive at 120/240 V AC & 30 V DC; 1/3 hp at 230 V AC Mechanical -- 1 x 10 ⁷ ; Electrical -- 1 x 10 ⁵ 250 V AC Red; ON when output relay energizes	
Protection Insulation Resistance Polarity Isolation Voltage	≥ 100 M DC units are reverse polarity protected ≥ 1500 V RMS input to output	
Mechanical Mounting Package Termination	Plug-in socket 3.2 x 2.4 x 1.8 in. (81.3 x 60.7 x 45.2 mm) Octal plug (8 Pin), magal plug (11 Pin)	
Environmental Operating Temperature Storage Temperature Weight	-20°C ... +60°C -30°C ... +85°C ≅ 6 oz (170 g)	

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Add value of switches in ON position for total time delay.

Mechanical View



Inches (Millimeters)