

MD Time Delay Relays

MARSH MEDICAL



The Marsh Medical **Time Delay Relay** delivers unparalleled convenience and efficiency. This versatile device offers single-function time delays, including On-delay, Interval, Flasher, and more, catering to diverse medical needs. With easily selectable time ranges of 1, 10, 30, 60 seconds, minutes, or hours, its universal voltage and time delay ranges simplify usage and eliminate the need for multiple models. Housed in a compact and streamlined DIN rail mounting design, this relay features indicator LEDs for quick power supply and output status checks. The single powerful, high-current changeover 6A relay with a long life of 100,000 electrical cycles ensures reliability, while finger-safe (IP20) terminals accommodate large wire sizes. With UL approval for the US and Canada and CE marking for Europe, this time delay relay offers universal voltage and time delay ranges in one model, maximizing efficiency and space in medical settings.

FEATURES

- Single Function time delays provide ease of use
- Available functions: On-delay, On-delay w/ Inhibit, Interval, Interval w/ Inhibit, Flasher, Flasher w/ Inhibit, Off-delay
- Available time ranges: 1, 10, 30, 60 seconds, minutes, or hours
- DIN rail mounting housing – compact and streamlined
- Indicator LEDs indicate power supply (green) and output status (red) at a glance
- Single powerful, high current changeover 6A, 3/4HP at 240VAC or B300 Pilot Duty SPDT relay contacts
- Long life – rated 100,000 electrical cycles at rating above or 10,000,000 mechanical cycles
- Extended temperature range of -20 to 65°C
- Finger safe (IP20) terminals which accommodate large (up to 12AWG) wire sizes
- Pending UL approval for US and Canada
- CE marking indicates conformity for use in Europe

FOCUS MARKETS/APPLICATIONS

- Sterilizers

COMPETITIVE ADVANTAGES

- Compact size allows more timers in less space
- Universal voltage and time delay ranges – one model number replaces many, offering significant cost savings



TECHNICAL DATA

Series	MD-0351 (On-Delay) or MD-0353 (Off-Delay)
POWER SUPPLY	
Voltage Range	AC/DC 12 - 240V (AC 50-60 Hz)
Power Input (max.)	2 VA/1.5W
Supply Voltage Tolerance	-15%; +10%
Supply Indication	Green LED
TIME CIRCUIT	
Time Ranges	0.1s - 100h
Time Setting	Rotary Switch and Potentiometer
Time Deviation	5%
Repeat Accuracy	0.2%
Temperature Coefficient	0.01%/°F, at = 68°F (0.01%/°C, at =20°C)
OUTPUT	
Output Contact 1	1x changeover/SPDT (AgNi)
Load Rating	6A, 120VAC; 1/4HP, 278VA at 120VAC
Electrical Life (AC1)	100,000 ops.
Max. Switching Voltage	250VAC/24VDC
Max. Power Dissipation	1.2W
Output Indication	Multifunction Red LED
Mechanical Life	10,000,000 ops.
CONTROL	
Impulse Length	Min. 25ms/Max. unlimited
Reset Time	Max. 150ms
OTHER	
Operating Temperature	-20°C to +65°C
Dielectric Strength	Supply - Output 1: 4 kV AC
Protection Degree	IP40 from front panel/IP20 terminals
Max. Conductor Size	Wire Max. 1x14AWG (2.5mm ²) / 2x16AWG (1.5mm ²)
Dimensions	3.5" x 0.7" x 2.5" (90mm x 17.6mm x 64mm)
Weight	2.2oz. (61g)
Standards	EN 61812-1

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Marsh Medical, a division of the Marsh Bellofram Group of Companies

8019 Ohio River Blvd. Newell, WV 26050 USA
304-387-1200 | customerRFQ@marshbellofram.com

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