

## Multi-Range Analog Timer

**Key Features** 

- Slim Body DIN 22.5 mm (.886 in)
- 0 Setting Instantaneous Output Operation
- UL/C-UL/CE Approval
- Multiple Time Ranges 1s to 500h (max)
- IP40 Protection
- 24-240V AC/DC Free-Voltage Input
- Built-in Screw Terminals
- 6 Different Operation Modes (PM5S-A)
- High Shock Resistance

#### **PM5S Models**

You may sort models by clicking the arrows in the appropriate column. If you are searching for a particular model but can't find it, give our model search utility a try. All downloads have moved to our separate downloads center.

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- Timers
- Accessories

#### **Currently viewing: PM5S Timers**

Model Name	Operation Mode	Time Range	Terminal Type	Control Output Current/ voltage	Mounting Method	Mounting Parts	Operating Voltage	Min. Power Off Time (ms)
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PM5S-A-24- 240V	Pulse ON delay, Flicker, ON-flicker; Signal OFF- delay, Pulse One-shot, One- Cycle	16 selectable ranges 1s to 500h	Relay timed- out	5 A / 250 V AC	Flush mount / DIN rail - adapter-	Terminal block, cap, panel cover, rubber gasket, mounting frame	24 to 240 V AC/DC	100
PM5S-M-24- 240V	Pulse ON delay, Flicker, ON-flicker; Signal OFF- delay, Pulse One-shot, One- Cycle	16 selectable ranges 1s to 500h	Relay timed- out	5 A / 250 V AC	Flush mount / DIN rail - adapter-	Terminal block, cap, panel cover, rubber gasket, mounting frame	24 to 240 V AC/DC	100
PM5S-S-24- 240V	Power ON- delay	16 selectable ranges 1s to 500h	Relay timed- out	5 A / 250 V AC	Flush mount / DIN rail - adapter-	Terminal block, cap, panel cover, rubber gasket, mounting frame	24 to 240 V AC/DC	100

## Mode selection PM5S-A/M type



 Operation mode indicator

 Selectable from 8 operation modes

 ON: ON-delay

 FL: Flicker

 FO: ON-flicker

 SF: Signal OFF-delay

 OS: Pulse One-shot

 OC: Pulse One-cycle

The 6 operation modes of PM5S-A and PM5S-M can be selected by the operation mode selector switch. In the next pages the different modes will be explained.

## Dimensions PM5S-

mm inch







# PM5S-A/S/M

# **Specifications**

Item		Туре	PM5S-A	PM5S-S	PM5S-M			
	Rated operating voltage		24 to 240V AC/DC					
	Rated frequency		50/60Hz common					
	Rated power consumption		2.6 VA (AC), 1.4 W (DC)					
	Rated control capacity		5A 250V AC (resistive load)					
Rating	Operating mode		Pulse ON-delay Pulse Flicker Pulse ON-Flicker Signal OFF-delay Pulse One-shot Pulse One-cycle	Power ON-delay	Pulse ON-delay Pulse Flicker Pulse ON-flicker Signal OFF-delay Pulse One-shot Pulse One-cycle (with instantaneous contact)			
	Time range		1s to 500h (Max.) 16 time ranges switchable					
Timo	Operating time fluctuation		±0.3% (power off time change at the range of 0.1s to 1h)					
accuracy Note:)	Setting error		±10% (Full-scale value)					
	Voltage error		±0.5% (at the operating voltage changes between 85 to 110%)					
	Temperature error		±2% (at 20°C am	°C +14 to +131°F)				
Contact	Contact arrangement		Timed-out 2 Form C		Timed-out 1 Form C Instantaneous 1 Form C			
	Contact resistance (Initial value)		Max. 100mΩ (at 1A 6V DC)					
	Contact material		Silver	Au flash on Silver alloy				
Life	Mechanical (contact)		2×	1×10 <sup>7</sup>				
	Electrical (contact)		10 <sup>5</sup> (at rated control capacity)					
	Allowable operating voltage range		85 to 110% of rated operating voltage (at 20°C coil temp.)					
Electrical function	Insulation resistance (Initial value)		Min. 100M $\Omega$	Between live and dead metal parts           100MΩ         Between input and output Between contacts of different poles Between contacts of same pole         (At 500V DC)				
	Breakdown voltage (Initial value)		2,000Vrms for 1 min Between live and dead metal parts 2,000Vrms for 1 min Between input and output 2,000Vrms for 1 min Between contacts of different poles 1,000Vrms for 1 min Between contacts of same pole					
	Min. power off time			100ms				
	Max. temperature rise		55°C 131°F		65°C 149°F			
	Shock resistance	Functional						
Mechanical function		Destructive	Min. 980m/s <sup>2</sup> (5 times on 3 axes)					
	Vibration resistance	Functional	10 to 55Hz: 1 cycle/min Single amplitude of 0.35mm (10min on 3 axes)					
	Destructive		10 to 55Hz: 1 cycle/min Single amplitude of 0.75mm (1h on 3 axes)					
Operating condition	Ambient temperature		-10 to +55°C +14 to +131°F					
	Ambient humidity		Max. 85%RH (non-condensing)					
	Atmospheric pressure		860 to 1,060hPa					
	Ripple factor (DC)		20%					
Others	Protective construction		IP40					
	Weight		<b>120</b> g 4.233 oz					

Note: 1) Unless otherwise specified, the measurement conditions at the maximum scale time standard are specified to be the rated operating voltage (within 5% ripple factor for DC), 20°C 68°F ambient temperature, and 1s power off time.

2) For the 1s range, the tolerance for each specification becomes  $\pm 10$ ms.

# Terminal layouts and Wiring diagrams

Timed-out 2 Form C



#### PM5S-M

- Timed-out 1 Form C
- Instantaneous 1 Form C









Contact



