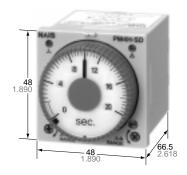


DIN48 SIZE ANALOG STAR (\bot)-DELTA (\triangle) TIMERS

PM4H-SD/SDM



mm inch

FEATURES

- Select four types of operation time ranges between 0.2 s and 100 s on a single unit.
- Select between five (\bot - \triangle switching) time ranges between 0.04 s and 0.7 s.
- There is a \land - \triangle switching indicator so you can check the operation at a glance.

CHARACTERISTICS

Item		Type	PM4H-SD/SDM		
Rating	Rated operating voltage		100 to 240V AC, 24V AC		
	Rated frequency		50/60Hz common (AC operating type)		
	Rated power consumption		Max. 10VA (100 to 240V AC)		
			Max. 2.5VA (24V AC)		
	Output rating		5A 250V AC (resistive load)		
	Operation mode		人-△ star-delta switching (Power ON-delay)		
	人 operation control time range		2s to 100s, 4 time ranges switchable		
			0.04, 0.1, 0.3, 0.5, 0.7s (5 time ranges selectable)		
Time accuracy Note:)	Operation time fluctuation		±0.3% (power off time change at the range of 0.1s to 1h)		
	Setting error		±5%		
	Voltage error		±0.5% (at operating voltage changes between 85 to 110%)		
	Temperature error		$\pm 2\%$ (at 20°C ambient temp. at the range of -10 to $+50$ °C $+14$ to $+122$ °F)		
Contact	Contact arrangement		Star (人) side: Timed-out 1 Form A Delta (△) side: Timed-out 1 Form A Instantaneous: 1 Form A (Instantaneous for SDM type only)		
	Contact resistance (Initial value)		Max. 100mΩ (at 1A 6V DC)		
	Contact material		Au flash on Silver alloy		
Life	Mechanical		2×10 ⁷		
Life	Electrical		10 ⁵ (at rated control capacity)		
Electrical function	Allowable operating voltage range		85 to 110% of rated operating voltage (at 20°C coil temp.)		
	Insulation resistance (Initial value)		Between live and dead metal parts Between input and output Between contacts of different poles *3 (At 500V DC) Between contacts of same pole		
	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 *3 1,000Vrms for 1 min Between contacts of same pole		
	Min. power off time		500ms		
	Max. temperature rise		65°C 131°F		
Mechanical function	Shock resistance	Functional	Min. 294m/s ² (4 times on 3 axes)		
		Destructive	Min. 980m/s ² (5 times on 3 axes)		
	Vibration resistance	Functional	10 to 55Hz: 1 cycle/min double amplitude of 0.5mm (10min on 3 axes)		
		Destructive	10 to 55Hz: 1 cycle/min double amplitude of 0.75mm (1h on 3 axes)		
Operating condition	Ambient temperature		−10 to +50°C +14 to +122°F		
	Ambient humidity		Max. 85%RH		
	Atmospheric pressure		860 to 1,060hPa		
Others	Protective construction		IP65 on front panel (using rubber gasket ATC18002)		
	Weight		100g 3.527 oz (Pin type)		
			110g 3.880 oz (Screw terminal type)		

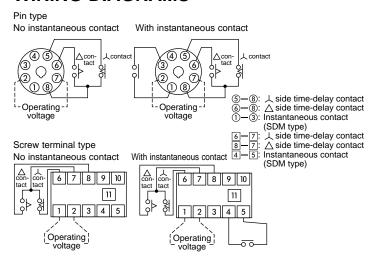
Notes: 1) Unless otherwise specified, the measurement conditions at the maximum scale time standard are specified at rated operating voltage, 20°C 68°F ambient temperature, and 1s power off time.

- 2) For the 2s range, the tolerance for each specification becomes ±10ms.
- 3) Between contacts of different poles for SDM type only.

PRODUCT TYPE

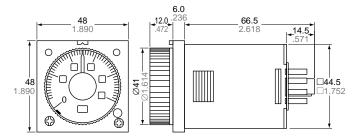
Туре	Operation mode	Contact arrangement	Time range	Protective construction	Rated operating voltage	Terminal type	Part number
	Star (∠)- Delta (△) switching	Relay Timed-out 人 side: 1 Form A △ side: 1 Form A	4 selectable operation ranges over 2s to 100s (人-△ switching time: 0.04, 0.1, 0.3, 0.5, 0.7s)	IP65	100 to 240V AC	8 pin	PM4HSD-S-AC240VW
PM4H-SD						screw	PM4HSD-S-AC240VSW
Star (人)-Delta (△) switching					24V AC	8 pin	PM4HSD-S-AC24VW
(<i>i</i>) own.oning						screw	PM4HSD-S-AC24VSW
PM4H-SDM		Relay Timed-out ↓ side: 1 Form A △ side: 1 Form A Instantaneous: 1 Form A			100 to 240V AC	8 pin	PM4HSDM-S-AC240VW
Star (人)-Delta						screw	PM4HSDM-S-AC240VSW
(△) switching (Instantaneous					24V AC	8 pin	PM4HSDM-S-AC24VW
contact)						screw	PM4HSDM-S-AC24VSW
·		Relay Timed-out 人 side: 1 Form A △ side: 1 Form A		IP50	100 to 240V AC	8 pin	PM4HSD-S-AC240V
PM4H-SD						screw	PM4HSD-S-AC240VS
Star (人)-Delta (△) switching					24V AC	8 pin	PM4HSD-S-AC24V
(△) Switching						screw	PM4HSD-S-AC24VS
PM4H-SDM		Relay Timed-out ↓ side: 1 Form A △ side: 1 Form A Instantaneous: 1 Form A			100 to 240V AC	8 pin	PM4HSDM-S-AC240V
Star (人)-Delta						screw	PM4HSDM-S-AC240VS
(△) switching (Instantaneous					24V AC	8 pin	PM4HSDM-S-AC24V
contact)						screw	PM4HSDM-S-AC24VS

WIRING DIAGRAMS

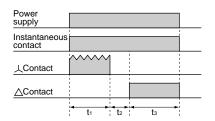


DIMENSIONS





OPERATION MODE



- t₁: 人 operation time (人 indicator LED lights)

TIME RANGE

Time range unit	Operating time (s)	人-△ switching time (s)		
2	0.2s to 2s	0.04		
10	1s to 10s	0.1		
20	2s to 20s	0.3		
100	10s to 100s	0.5		