

Solid-state Timer H3Y

CSM_H3Y_DS_E_2_1

Miniature Timer Compatible with the MY Relay

- Semi-multi power supply voltage.
- Large transparent time setting knob facilitates time setting. A flat-blade and Phillips screwdriver can also be used for time setting.
- Pin configuration compatible with MY Power Relay.
- LED indication for power and output statuses.
- Conforms to EMC standards.
- Conforms to EN61812-1 and approved by UL and CSA.



Ordering Information

Operation/ resetting system	Time-limit contact	Time ranges	Supply voltage	Mounting	
				Surface/DIN-track mounting (with socket)	Surface mounting (with PCB terminals)
Time-limit operation/ self-resetting	DPDT (for power switching)	0.04 s to 3 h	24, 100 to 120, 200 to 230 VAC (50/60 Hz); 12, 24, 48, 125, 100 to 110 VDC	H3Y-2	H3Y-2-0
	4PDT			H3Y-4 (See note 3.)	H3Y-4-0 (See note 3.)

Note: 1. Specify both the model number, supply voltage, and rated time when ordering.

Ex. H3Y-2 100 to 120 VAC 0.5 s
 Rated time
 Supply voltage

2. Sockets and Hold-down Clips are not included with the H3Y. They must be ordered separately.
3. Use the H3Y-4 or H3Y-4-0 Series when switching micro loads.

Accessories (Order Separately)

Timer	Track-mounted Socket (See note.)	Back-connecting Socket		
		Solder terminal	Wire-wrap terminal	PC terminal
H3Y-2	PYF08A, PYF08A-N, PYF08A-E	PY08	PY08QN(2)	PY08-02
H3Y-4	PYF14A, PYF14A-N, PYF14A-E	PY14	PY14QN(2)	PY14-02

Note: Track-mounted Socket can be used as a front-connecting socket.

Specifications

Time Ranges

Rated time	Time setting range	Rated time	Time setting range
0.5 s	0.04 to 0.5 s	3 min	0.1 to 3 min
1 s	0.1 to 1 s	5 min	0.2 to 5 min
5 s	0.2 to 5 s	10 min	0.5 to 10 min
10 s	0.5 to 10 s	30 min	1 to 30 min
30 s	1.0 to 30 s	60 min	2 to 60 min
60 s	2.0 to 60 s	3 h	0.1 to 3 h
120 s	5.0 to 120 s	---	---

■ Ratings

Item	H3Y-2(-0)/H3Y-4(-0)
Rated supply voltage (See note 6.)	24, 100 to 120 (50/60 Hz), 200 to 230 VAC (50/60 Hz) (See note 1.), 12, 24, 48, 125, 100 to 110 VDC (See notes 2 and 3.)
Operating voltage range	All rated voltages except 12 VDC: 85% to 110% of rated supply voltage 12 VDC: 90% to 110% of rated supply voltage (See note 4.)
Reset voltage	10% min. of rated supply voltage (See note 5.)
Power consumption	100 to 120 VAC: Relay ON: Approx. 1.8 VA (1.6 W) at 120 VAC, 60 Hz Relay OFF: Approx. 1 VA (0.6 W) at 120 VAC, 60 Hz 200 to 230 VAC: Relay ON: Approx. 2.2 VA (1.8 W) at 230 VAC, 60 Hz Relay OFF: Approx. 1.5 VA (1.1 W) at 230 VAC, 60 Hz 24 VAC: Relay ON: Approx. 1.8 VA (1.4 W) at 24 VAC, 60 Hz Relay OFF: Approx. 0.3 VA (0.2 W) at 24 VAC, 60 Hz 12 VDC: Relay ON: Approx. 1.1 W at 12 VDC Relay OFF: Approx. 0.1 W at 12 VDC 24 VDC: Relay ON: Approx. 1.1 W at 24 VDC Relay OFF: Approx. 0.1 W at 24 VDC 48 VDC: Relay ON: Approx. 1.2 W at 48 VDC Relay OFF: Approx. 0.3 W at 48 VDC 100 to 110 VDC: Relay ON: Approx. 1.6 W at 110 VDC Relay OFF: Approx. 0.4 W at 110 VDC 125 VDC: Relay ON: Approx. 1.6 W at 125 VDC Relay OFF: Approx. 0.4 W at 125 VDC
Control outputs	H3Y-2(-0): 5 A at 250 VAC, resistive load ($\cos\phi = 1$) H3Y-4(-0): 3 A at 250 VAC, resistive load ($\cos\phi = 1$)

- Note:**
- Do not use the output from an inverter as the power supply. Refer to *Safety Precautions for All Times* for details.
 - With DC ratings, single-phase full-wave rectified power sources may be used.
 - Only the H3Y-2 and H3Y-2-0 Series include 2-VDC models.
 - Use the Timer within 90% to 110% of the rated supply voltage (95% to 110% for 12 VDC) when using it continuously under an ambient operating temperature of 50°C.
 - Set the reset voltage as follows to ensure proper resetting.
 - 100 to 120 VAC: 10 VAC max.
 - 200 to 230 VAC: 20 VAC max.
 - 100 to 110 VDC: 10 VDC max.
 - Refer to *Safety Precautions for All Times* when combining the Timer with an AC 2-wire proximity sensor.