Solid-state Timer H3YN

Miniature Timer with Multiple Time Ranges and Multiple Operating Modes

- Multiple operating modes include ON-delay, interval, flicker OFF start, or flicker ON start.
- Multiple time ranges from 0.1 s to 10 min or 1 min to 10 hr
- Minimizes stock: User selectable time range and mode by DIP switches.
- Pin configuration compatible with MY Power Relay.
- Conforms to EN 61812-1 and IEC 60664-1 for Low Voltage, and EMC Directives.



 \triangle

Refer to Safety Precautions on page 14.

For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Ordering Information

List of Models

Specify both the model number and supply voltage when ordering. Example: H3YN-2 DC24

Supply voltage	Time-limit contact	Short-time range model (0.1 s to 10 min)	Long-time range model (0.1 min to 10 h)
24, 100 to 120, 200 to 230 VAC;	DPDT	H3YN-2	H3YN-21
12, 24, 48, 100 to 110, 125 VDC	4PDT	H3YN-4 *1	H3YN-41 *1
24 VDC	4PDT (Twin contacts)	H3YN-4-Z * 1, * 2	H3YN-41-Z *1, *2

Note: Sockets and Hold-down Clips are not included with the H3YN. They must be ordered separately.

Accessories (Order Separately)

Adapter, Mounting Plate, Clip

Name/specification	Model	
Flush mounting adapter	Y92F-78	
Mounting Plate for Socket	For 1 Socket	PYP-1
Mounting Plate for Socket	For 18 Sockets	PYP-18
Clin	For PYF□A	Y92H-3
Clip	For PY□ and PYF□M	Y92H-4

Note: For details, refer to Precautions for H3Y-series Timers on page 14.

Socket

Timer		Square Sockets			
Contact Model		Pin	Connection	Terminal	Model
			Front Connecting	DIN track mounting	PYF08A
				DIN track mounting (Finger-safe type)	PYF08A-E
DPDT	H3YN-2□	8-pin		Screw mounting	PYF08A
			Pook Connecting	Solder terminal	PY08
			Back Connecting PCB terminal	PCB terminal	PY08-02
				DIN track mounting	PYF14A
4PDT	H3YN-4□	14-pin	Front Connecting	DIN track mounting (Finger-safe type)	PYF14A-E
		•	Barda Orana adia a	Solder terminal	PY14
			Back Connecting	PCB terminal	PY14-02

Note: 1. Cannot be used with the H3Y-□-0 (PCB terminals).

^{*1.} Use the H3YN-4 or H3YN-41 Series when switching micro loads, and use the H3YN-4-Z or H3YN-41-Z Series when switching even smaller loads.

^{*2.} Only models with 24 VDC power supply are available.

^{2.} The PYF \(\subseteq A-E\) has a finger-protection structure. Round crimp terminals cannot be used. Use forked crimp terminals.

^{3.} For details, refer to Precautions for H3Y-series Timers on page 14.

H3YN

Specifications

Ratings

Item	H3	SYN-2/-4/-4-Z		H3YN-21/-41/-41-Z
Time ranges	0.1 s to 10 min (1 s selectable)	, 10 s, 1 min, o	r 10 min max.	0.1 min to 10 h (1 min, 10 min, 1 h, or 10 h max. selectable)
Rated supply voltage * 5, * 6	24, 100 to 120, 200 12, 24, 48, 100 to 1			
Pin type	Plug-in			
Operating mode	ON-delay, interval,	flicker OFF sta	rt, or flicker ON	start (selectable with DIP switch)
Operating voltage range	85% to 110% of rat	ed supply volta	ge (12 VDC: 90	% to 110% of rated supply voltage) * 3
Reset voltage	10% min. of rated s	supply voltage	\$ 4	
Power consumption	100 to 120 VAC: 200 to 230 VAC: 24 VAC: 12 VDC: 24 VDC: 48 VDC: 100 to 110 VDC: 125 VDC:	Relay ON: Relay OFF: Relay ON:	Approx. 1 VA (Approx. 2.2 VAApprox. 1.5 VAApprox. 1.8 VAA	at 12 VDC at 24 VDC at 24 VDC at 48 VDC at 48 VDC at 110 VDC at 110 VDC at 125 VDC
Control outputs	DPDT: 5 A at 250 VAC, resistive load (cosφ = 1) The minimum applicable load is 1 mA at 5 VDC (P reference value). Contact materials: Ag 4PDT: 3 A at 250 VAC, resistive load (cosφ = 1) H3YN-4/-41 series: The minimum applicable load is 1 mA at 1 VDC (P reference value). H3YN-4-Z/-41-Z series: The minimum applicable load is 1 mA at 1 VDC (P reference value). Contact materials: Au-clad + Ag-alloy			
Ambient operating temperature	-10°C to 50°C (with no icing)			
Storage temperature	-25°C to 65°C			
Ambient operating humidity	35% to 85%			
Med. Do not use the autout from an invertor	an the names among	Defeate Cefet	Dua a a	or All Timere for details on your OMPON website

^{*1.} Do not use the output from an inverter as the power supply. Refer to Safety Precautions for All Timers for details on your OMRON website.

*4. 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.

^{*2.} Single-phase, full-wave-rectified power supplies can be used.

^{*3.} When using the H3YN continuously in any place where the ambient temperature is in a range of 45°C to 50°C, supply 90% to 110% of the rated supply voltages (supply 95% to 110% with 12 VDC type).

^{*5.} Refer to Safety Precautions for All Timers on your OMRON website when combining the Timer with an AC 2-wire proximity sensor.

^{*6.} A diode to prevent reverse voltages is provided only on models with a DC power supply.

Characteristics

Item	H3YN-2/-21/-4/-41	
Accuracy of operating time	±1% FS max. (1 s range: ±1%±10 ms max.)	
Setting error	±10%±50 ms FS max.	
Reset time	Min. power-opening time: 0.1 s max. (including halfway reset)	
Influence of voltage	±2% FS max.	
Influence of temperature	±2% FS max.	
Insulation resistance	100 MΩ min. (at 500 VDC)	
Dielectric strength	2,000 VAC, 50/60 Hz for 1 min (between current-carrying terminals and exposed non-current-carrying metal parts) *1 2,000 VAC, 50/60 Hz for 1 min (between operating power circuit and control output) 2,000 VAC, 50/60 Hz for 1 min (between different pole contacts; 2-pole model) 1,500 VAC, 50/60 Hz for 1 min (between different pole contacts; 4-pole model) 1,000 VAC, 50/60 Hz for 1 min (between non-continuous contacts)	
Vibration resistance	Destruction: 10 to 55 Hz, 0.75-mm single amplitude for 1 h each in 3 directions Malfunction: 10 to 55 Hz, 0.5-mm single amplitude for 10 min each in 3 directions	
Shock resistance	Destruction: 1,000 m/s² * 2 Malfunction: 100 m/s²	
Life expectancy	Mechanical: 10,000,000 operations min. (under no load at 1,800 operations/h) DPDT: 500,000 operations min. (5 A at 250 VAC, resistive load at 1,800 operations/h) 4PDT: 200,000 operations min. (H3YN-4-Z/-41-Z: 100,000 operations min.) (3 A at 250 VAC, resistive load at 1,800 operations/h) *3	
Impulse withstand voltage	Between power terminals: 3 kV for 100 to 120 VAC, 200 to 230 VAC, 100 to 110 VDC, 125 VDC 1 kV for 12 VDC, 24 VDC, 48 VDC, 24 VAC Between exposed non-current-carrying metal parts: 4.5 kV for 100 to 120 VAC, 200 to 230 VAC, 100 to 110 VDC, 125 VDC 1.5 kV for 12 VDC, 24 VDC, 48 VDC, 24 VAC	
Noise immunity	±1.5 kV, square-wave noise by noise simulator (pulse width: 100 ns/1 μs, 1-ns rise)	
Static immunity	Destruction: 8 kV Malfunction: 4 kV	
Degree of protection	IP40	
Weight	Approx. 50 g	
EMC	(EMI) EN 61812-1 Emission Enclosure: EN 55011 Group 1 class A Emission AC Mains: EN 55011 Group 1 class A (EMS) EN 61812-1 Immunity ESD: IEC 61000-4-2 Immunity RF-interference: IEC 61000-4-3 Immunity Burst: IEC 61000-4-4 Immunity Surge: IEC 61000-4-5 Immunity Conducted Disturbance: IEC 61000-4-6 Immunity Voltage Dip/Interruption: IEC 61000-4-11	
Approved standards	UL 508, CSA C22.2 No. 14, Lloyds, CCC Conforms to EN 61812-1 and IEC 60664-1. (2.5 kV/2 for H3YN-2/-21, 2.5 kV/1 for H3YN-4/-41, H3YN-4-Z/-41-Z) *4	

^{*1.} Terminal screw sections are excluded.

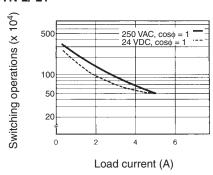
*2. The destructive shock resistance test was performed on the Timer.

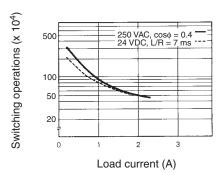
*3. Refer to the *Life-test Curve*.

*4. Overvoltage category II.

Life-test Curve (Reference Value)

H3YN-2/-21

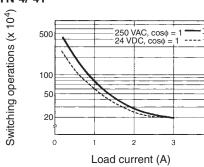


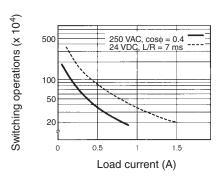


Reference: A maximum current of 0.6 A can be switched at $125 \, \text{VDC}$ ($\cos \phi = 1$). Maximum current of 0.2 A can be switched if L/R is 7 ms. In both cases, a life of 100,000 operations can be expected.

The minimum applicable load is 1 mA at 5 VDC (P reference value)

H3YN-4/-41

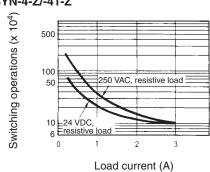




Reference: A maximum current of 0.5 A can be switched at 125 VDC ($\cos\phi = 1$). Maximum current of 0.2 A can be switched if L/R is 7 ms. In both cases, a life of 100,000 operations can be expected.

The minimum applicable load is 1 mA at 1 VDC (P reference value)

H3YN-4-Z/-41-Z



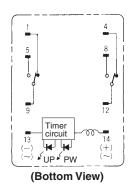
Reference: A maximum current of 0.5 A can be switched at 125 VDC ($\cos \phi = 1$). Maximum current of 0.2 A can be switched if L/R is 7 ms. In both cases, a life of 100,000 operations can be expected.

The minimum applicable load is 0.1 mA at 1 VDC (P reference value).

Connections

Connection

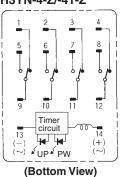
H3YN-2/-21



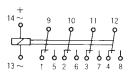
DIN Notation



H3YN-4/-41 H3YN-4-Z/-41-Z



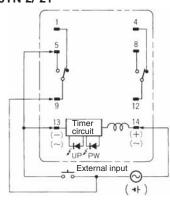
DIN Notation



Pulse Operation

A pulse output for a certain period can be obtained with a random external input signal. Use the H3YN in interval mode as shown in the following timing charts.

H3YN-2/-21

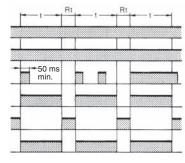


Power (9-14)

External short circuit (5-13)
External input (9-13)

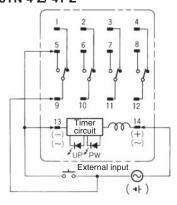
Time limit contact NO (12-8) Time limit contact NC (12-4)

Run/Power indicator (PW) Output indicator (UP)



Note: t: Set time Rt: Reset time

H3YN-4/-41 H3YN-4-Z/-41-Z



Power (9-14)

External short circuit (5-13)
External input (9-13)

Time limit contact NO (10-6, 11-7, 12-8)

Time limit contact NC (10-2, 11-3, 12-4)
Run/Power indicator (PW)
Output indicator (UP)

50 ms min.

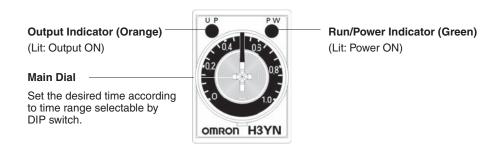
Note: t: Set time Rt: Reset time

–<u>∕</u>!\ Caution -

Be careful when connecting wires.

Mode	Terminals
Pulse operation	Power supply between 9 and 14 Short-circuit between 5 and 13 Input signal between 9 and 13
Operating mode; interval and all other modes	Power supply between 13 and 14

Nomenclature



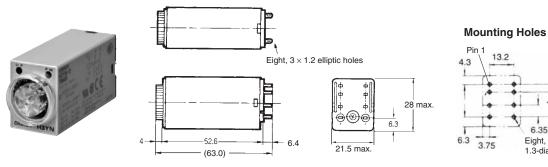
Dimensions (Unit: mm)

12.65

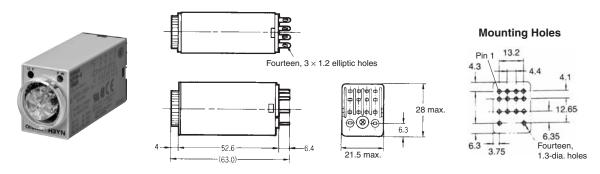
6.35 Eight, 1.3-dia. holes

Timers

H3YN-2/-21 Front Mounting



H3YN-4/-41 Front Mounting H3YN-4-Z/-41-Z



Operation

DIP Switch Settings

The 1-s range and ON-delay mode for H3YN-2/-4/-4-Z, the 1-min range and ON-delay mode for H3YN-21/-41/-41-Z are factory-set before shipping.

Time Ranges

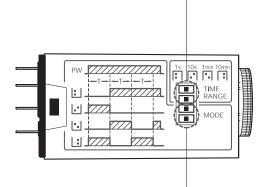
Model	Time range	Time setting range	Setting	Factory-set
	1 s	0.1 to 1 s		Yes
H3YN-2, H3YN-4	10 s	1 to 10 s		No
H3YN-4-Z	1 min	0.1 to 1 min		No
	10 min	1 to 10 min		No
	1 min	0.1 to 1 min		Yes
H3YN-21, H3YN-41	10 min	1 to 10 min		No
H3YN-41-Z	1 h	0.1 to 1 h		No
	10 h	1 to 10 h		No

Note: The top two DIP switch pins are used to select the time ranges.

Operating Modes

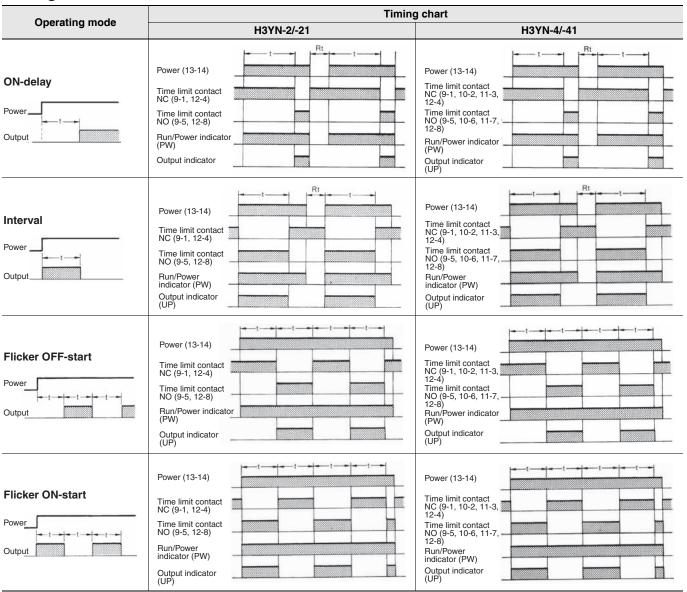
<u> </u>		
Operating mode	Setting	Factory-set
ON-delay		Yes
Interval		No
Flicker OFF-start		No
Flicker ON-start		No

Note: The bottom two DIP switch pins are used to select the operating mode.



H3YN

Timing Chart

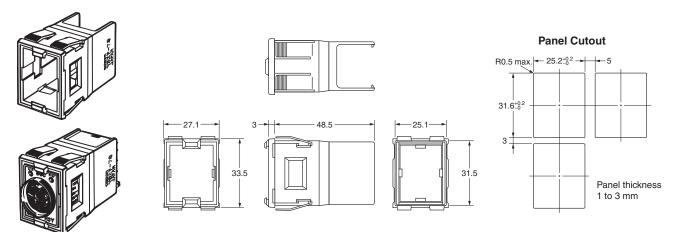


Note: t: Set time Rt: Reset time

Precautions for H3Y-series Timers

Flush Mounting Adapter

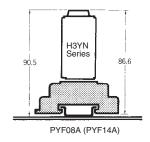
Y92F-78



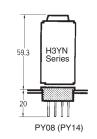
- Note: 1. Push the H3Y in until the Adaptor (Y92F-78) hooks engage with its rear panel.
 - 2. Do not round the corners of the cutout on the rear panel surface, otherwise the Adaptor (Y92F-78) tabs may not engage properly.

Mounting Height

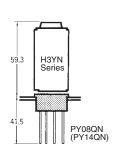
PYF08A/PYF08A-N/PYF08A-E (PYF14A/PYF14A-N/PYF14A-E *1)



PY08 (PY14 *1)



PY08QN (PY14QN *1)



^{*1.} Models in parentheses are Connecting Sockets to the H3YN-4/-41 or H3YN-4-Z/-41-Z.

Connecting Sockets (Sold Separately) H3Y/H3YN Series

Use one of the following Connecting Sockets: $PYF \square A$, $PYF \square M$, $PY \square$, $PY \square$ -02, or $PY \square QN(2)(-Y3)$.(\square = 08 or 14)

Accessories (Order Separately)

Use the PYF \Box A, PY \Box , PY \Box -02, or PY \Box QN(2) to mount the H3Y/H3YN. When ordering any one of these sockets, replace " \Box " with "08" or "14."

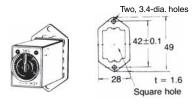
Socket Mounting Plates (t = 1.6)

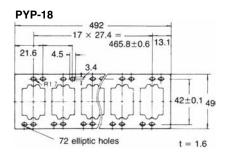
Use a Socket Mounting Plate to mount multiple Connecting Sockets in a row.

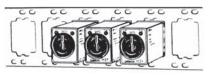
Applicable socket	For mounting 1 socket	For mounting 18 sockets
PY08, PY14, PY08QN(2), PY14QN(2)	PYP-1	PYP-18

Note: PYP-18 may be cut to any desired length.

PYP-1







Relay Hold-down Clips

The Hold-down Clip makes it possible to mount the H3YN securely and prevent the H3YN from falling out due to vibration or shock.

Note: When you attach the Hold-down Clip to or remove it from the Socket, take sufficient precautions to not injury your fingers, such as wearing gloves.

Y92H-3

Y92H-4

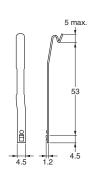
H3Y/H3YN Series for PYF□A Socket

Y92H-3

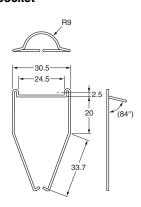
(Set of Two Clips)

Y92H-4 for PY□ Socket





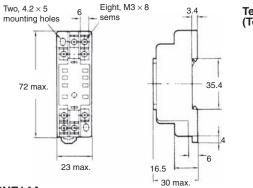




H3Y/H3YN Series

Track Mounting/Front Connecting Sockets

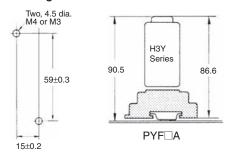
PYF08A



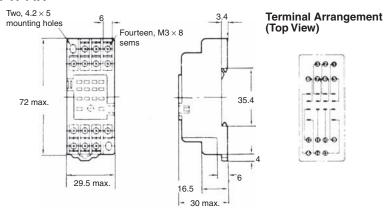
Terminal Arrangement (Top View)



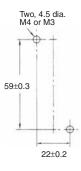
Mounting Holes



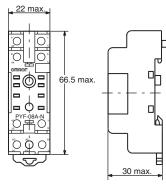
PYF14A



Mounting Holes



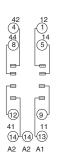
PYF08A-N



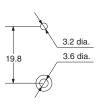
Terminal Arrangement

000 0000

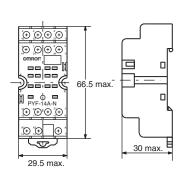
0000 000



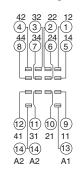
Mounting Holes (for Surface Mounting)



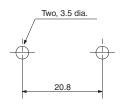
PYF14A-N



Terminal Arrangement

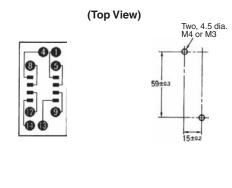


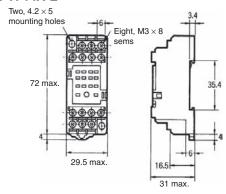
Mounting Holes (for Surface Mounting)

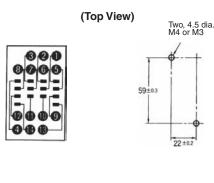


H3Y Series

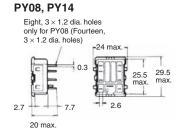
PYF08A-E Two, 4.2 × 5 mounting holes Eight, M3 \times 8 sems 72 max 23 max 31 max. PYF14A-E Two, 4.2 × 5 mounting holes Eight, M3 × 8 sems

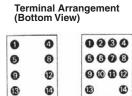


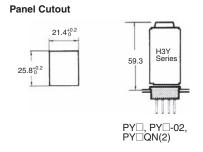




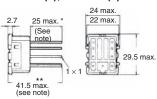
H3Y/H3YN Series **Back Connecting Sockets**







PY08QN, PY14QN PY08QN(2), PY14QN(2)



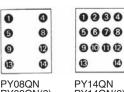
Note: With PY□QN(2), dimension * should read 20 max. and dimension ** 36.5 max.

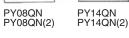
Terminal Arrangement (Bottom View)

PY14

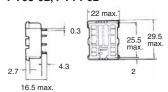
1

PY08

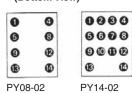




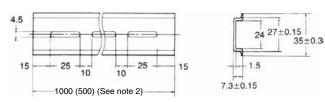
PY08-02, PY14-02



Terminal Arrangement (Bottom View)



Mounting Track PFP-100N/PFP-50N (see note 1)

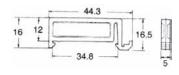


Note: 1. Meets DIN EN50022

2. This dimension applies to PFP-50N.

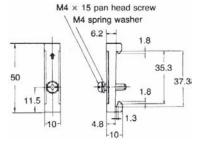
Spacer

PFP-S



End Plate

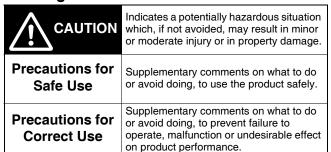
PFP-M



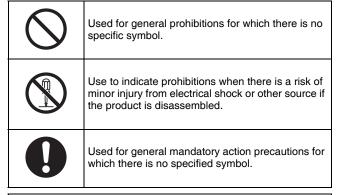
Safety Precautions

Be sure to read precautions for all models in the website at the following URL: http://www.omron247.com/.

Warning Indications



Meaning of Product Safety Symbols



⚠ CAUTION

Risk of fire and explosion due to arcing and relay heat generation that accompanies switching. Do not use in an environment where flammable or explosive gas is present.



The service life of the output relay varies widely depending on switching capacity and switching conditions. Use only within the rated load and electrical life count, based on actual conditions of use. Risk of contact sticking and burning if used past the service life. Always use a load current that does not exceed the rating, and if a heater is used, use a thermal switch in the load circuit.

Do not remove the outer casing.



In rare circumstances there is a risk of slight electrical shock, fire, or device damage. Do not disassemble, modify, repair, or otherwise touch the inside.



Tighten the screws for the lead wires to the Socket to the following torque.

PYF Socket: 0.78 to 1.18 N·m



This is the recommended range when crimp terminals are used.

If the screws are not tightened sufficiently on Front-connecting Sockets, the lead wires may come off, connection failure may cause abnormal heating, or fires may occur.

If they are tightened excessively, the screw threads may be damaged.

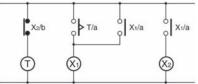
Precautions for Safe Use

Confirm that the setting dial, indicators and plastic parts are operating normally. Depending on the operating environment, the setting dial, indicators and plastic parts may deteriorate faster than expected, causing the indicators to fail. Periodically perform inspections and replacements.

We recommend that you use a surge absorber if surge voltages may occur. When you dispose of the Timer, do so according to all local ordinances for processing industrial waste.

Precautions for Correct Use

- When selecting a control output, use the H3Y-2/H3YN-2/H3Y-2-B/H3YN-2-B for switching ON and OFF the power and the H3Y-4/H3YN-4/H3Y-4-B/H3YN-4-B for switching ON and OFF the minute load. Gold-plated relays are used in the H3Y-4, H3YN-4, H3YN-4-B, H3YN-4-B, H3YN-4-Z, H3YN-4-Z, H3YN-4-Z-B, and H3YN-41-Z-B Series.
- Connect the power supply between terminals A1 (13) and A2 (14).
 For a DC power supply, connect the negative side to A1 (13) and the positive side to A2 (14).
- The operating voltage will increase when using the H3Y/H3YN/ H3Y-B/H3YN-B in any place where the ambient temperature is more than 50°C. Supply 90% to 110% of the rated voltages (at 12 VDC: 95% to 110%) when operating at 45°C or higher.
- Do not leave the H3Y/H3YN/H3Y-B/H3YN-B in time-up condition for a long period of time (for example, more than one month in any place where the ambient temperature is high), otherwise the internal parts (aluminum electrolytic capacitor) may become damaged. Therefore, the use of the H3Y/H3YN/H3Y-B/H3YN-B with a relay as shown in the following circuit diagram is recommended to extend the service life of the H3Y/H3YN/H3Y-B/ H3YN-B.



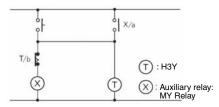
(X): Auxiliary relay such as MY Relay

- The H3YN/H3YN-B must be disconnected from the Socket when setting the DIP switch, otherwise the user may touch a terminal imposed with a high voltage and get an electric shock.
- Do not connect the H3Y/H3YN/H3Y-B/H3YN-B as shown in the following circuit diagram on the right hand side, otherwise the H3Y's/H3YN's/H3Y-B's/H3YN-B's internal contacts different from each other in polarity may become short-circuited.





 Use the following safety circuit when building a self-holding or selfresetting circuit with the H3Y/H3YN/H3Y-B/H3YN-B and an auxiliary relay, such as an MY Relay, in combination.



- In the case of the above circuit, the H3YN will be in pulse operation.
 Therefore, if the circuit shown on page 13 is used, no auxiliary relay will be required.
- Do not set to the minimum setting in the flicker modes, otherwise the contact may become damaged.
- Be careful not to apply any voltage to the terminal screws on the back of the Timer. Mount the product so that the screws will not come in contact with the panel or metal parts.
- Do not use the H3Y/H3YN/H3Y-B/H3YN-B in places where there is excessive dust, corrosive gas, or direct sunlight.
- Do not mount more than one H3Y/H3YN/H3Y-B/H3YN-B closely together, otherwise the internal parts may become damaged.
 Make sure that there is a space of 5 mm or more between any H3Y/ H3YN/H3Y-B/H3YN-B Models next to each other to allow heat radiation.
- The internal parts may become damaged if a supply voltage other than the rated ones is imposed on the H3Y/H3YN/H3Y-B/H3YN-B.
 When more than 100 V is applied to 12 or 24 VDC models, the internal element (varistor) may break.

- In order to conform to UL and CSA requirements when using the H3Y-4/-4-0/-4-B, H3YN-4/-41/-4-B/-41-B, or H3YN-4-Z/-41-Z/ -4-Z-B/-41-ZB, connect the Unit so that output contacts (contacts of different poles) have the same electric potential.
- In cases such as PLC input where the load is extremely small for the control output of a timer containing a power relay (using other than gold-plated contacts), reliability can be increased by using contacts of the same poles (e.g., the H3Y-2) in parallel.
- · Always use the same type of wire.
- Installation

There are no restrictions on the installation orientation. Install the Timer securely.

Precautions for EN 61812-1 Conformance

The H3Y/H3YN/H3Y-B/H3YN-B as a built-in timer conforms to EN 61812-1 provided that the following conditions are satisfied.

Handling

- Do not touch the DIP switch while power is supplied to the H3YN/ H3YN-B.
- Before dismounting the H3YN/H3YN-B from the Socket, make sure that no voltage is imposed on any terminal of the H3YN/ H3YN-B
- The applicable Socket is the PYF□A (H3Y/H3YN).
- Only basic insulation is ensured between the Y92H-3 Hold-down Clips and H3Y/H3YN/H3Y-B/H3YN-B internal circuits.
- Do not allow the Y92H-3 Hold-down Clips to contact other parts.
- The insulation test voltage between different pole contacts for the 4-pole model is the impulse voltage of 2.95 kV.

Wiring

- The power supply for the H3Y/H3YN/H3Y-B/H3YN-B must be protected with equipment such as a breaker approved by VDE.
- Basic insulation is ensured between the H3Y's/H3YN's/H3Y-B's/ H3YN-B's operating circuit and control output.
- Insulation requirement:

Overvoltage category II, pollution degree 1 (H3Y-4/-4-0/-4-B, H3YN-4/41/-4-B/-41-B, H3YN-4-Z/-41-Z/-B/-41-Z-B), pollution degree 2 (H3Y-2/-2-0/-2-B, H3YN-2/-2-B/-21-B)

pollution degree 2 (H3Y-2/-2-0/-2-B, H3YN-2/21/-2-B/-21-B) (with a clearance of 1.5 mm and a creepage distance of 2.5 mm at 240 VAC)

• Output terminals next to each other on the H3Y-4 or H3Y-4-0 must have the same polarity.

Recommended Replacement Periods and Periodic Replacement as Preventive Maintenance

The recommended replacement period for preventive maintenance is greatly influenced by the application environment of the product. As a guideline for models that do not have a Maintenance Forecast Monitor, the recommended replacement period is 7 to 10 years.* To prevent failures that can be caused by using a product beyond its service live, we recommend that you replace the product as early as possible within the recommended replacement period. However, realize that the recommended replacement period is for reference only and does not guarantee the life of the product.

Many electronic components are used in the product and the product depends on the correct operation of these components to achieve product functions and performance. However, the influence of the ambient temperature on aluminum electrolytic capacitors is large, and the service life is reduced by half for each 10°C rise in temperature (Arrhenius law). When the capacity reduction life of the electrolytic capacitor is reached, the product may fail. We therefore recommend that you replace the product periodically to minimize product failures in advance.

* The following conditions apply: rated input voltage, load rate of 50% max., ambient temperature of 35°C max., and the standalone mounting method.

This product model is designed with a service life of 10 years minimum under the above conditions.

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