Solid-state Timer

Miniature Timer with Multiple Time Ranges and Multiple Operating Modes

- Minimizes stock.
- Pin configuration compatible with MY Power Relay.
- Standard multiple operating modes and multiple time ranges.
- Conforms to EN61812-1 and IEC60664-1 for Low Voltage, and EMC Directives.



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

Model Number Structure

Model Number Legend



- 1. Output
 - 2: DPDT
- 4: 4PDT
- 2. Time Range
 - None: Short-time range (0.1 s to 10 min)
 - 1: Long-time range (0.1 min to 10 hrs)

Ordering Information

List of Models

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)
	DPDT	H3YN-2	H3YN-21
	4PDT	H3YN-4	H3YN-41
24 VDC	4PDT (Twin contacts)	H3YN-4-Z	H3YN-41-Z

Note: Specify both the model number and supply voltage when ordering. Example: H3YN-2 24 VAC

Note: 1. Sockets and Hold-down Clips are not included with the H3YN. They must be ordered separately.

2. Only models with 24-VDC power supply are available.

3. 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.

3. Contact Type None: Single contact Z: Twin contacts

Accessories (Order Separately)

Adapter, Mounting Plate, Clip

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

Note: For details, refer to NTLP×REFERENCE Socket and DIN Track Products.

<u>Socket</u>

Timer		Square Sockets			Square Sockets			
Contact	Model	Pin	Connection	Terminal	Model			
				DIN track mounting	PYF08A			
DPDT	PPDT H3Y-2 H3YN-2	8-pin	Front Connecting	DIN track mounting (Finger-safe tyape)	PYF08A-E			
				Screw mounting	PYF08F			
		Back Connecting	Solder terminal	PY08				
				DIN track mounting	PYF14A			
4PDT	H3Y-4 H3YN-4 14-pin		DIN track mounting (Finger-safe tyape)	PYF14A-E				
			Back Connecting	Solder terminal	PY14			

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

2. The PYFDA-E has a finger-protection structure. Round crimp terminals cannot be used. Use forked crimp terminals.

3. For details, refer to Socket and DIN Track Products.

Specifications

■ Ratings

Item		H3YN-2/-4/-4-Z	H3YN-21/-41/-41-Z
Time ranges	0.1 s to 10 min (selectable)	1 s, 10 s, 1 min, or 10 min max.	0.1 min to 10 h (1 min, 10 min, 1 h, or 10 h max. selectable)
Rated supply voltage (See note 5, 6.)		200 to 230 VAC (50/60 Hz) (See n o 110, 125 VDC (See note 2.)	ote 1.)
Pin type	Plug-in		
Operating mode	ON-delay, interva	al, flicker OFF start, or flicker ON s	start (selectable with DIP switch)
Operating voltage range	85% to 110% of rated supply voltage (12 VDC: 90% to 110% of rated supply voltage) (See note 3.)		% to 110% of rated supply voltage)
Reset voltage	10% min. of rated supply voltage (See note 4.)		
Power consumption		Relay ON: Approx. 1.8 VA (1.6 Relay OFF: Approx. 1 VA (0.6 W Relay ON: Approx. 2.2 VA (1.8 Relay OFF: Approx. 1.5 VA (1.1) át 120 VAC, 60 Hz W) at 230 VAC, 60 Hz W) at 230 VAC, 60 Hz
	12 VDC:	Relay ON: Approx. 1.8 VA (1.4 Relay OFF: Approx. 0.3 VA (0.2 Relay ON: Approx. 1.1 W at 12 Relay OFF: Approx. 0.1 W at 12	W) at 24 VAC, 60 Hz VDC VDC
	24 VDC: 48 VDC: 100 to 110 VDC: 125 VDC:	Relay ON: Approx. 1.1 W at 24 Relay OFF: Approx. 0.1 W at 24 Relay ON: Approx. 1.2 W at 48 Relay OFF: Approx. 0.3 W at 48 Relay OFF: Approx. 1.6 W at 110 Relay OFF: Approx. 0.4 W at 111 Relay ON: Approx. 1.6 W at 129	VDC VDC VDC 0 VDC 0 VDC 0 VDC
	125 000.	Relay OFF: Approx. 0.4 W at 12	
Control outputs		0 VAC, resistive load $(\cos\phi = 1)$ 0 VAC, resistive load $(\cos\phi = 1)$	

Note: 1. Do not use the output from an inverter as the power supply. Refer to Safety Precautions for All Times for details.

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).

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.

5. Refer to Safety Precautions for All Timers 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.

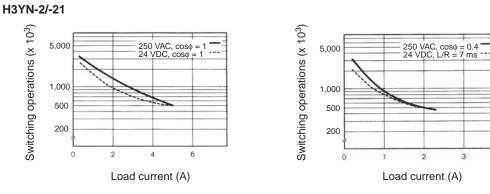
■ Characteristics

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) (see note 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/s ² Malfunction: 100 m/s ²	
Ambient temperature	Operating: -10°C to 50°C (with no icing) Storage: -25°C to 65°C (with no icing)	
Ambient humidity	Operating: 35% to 85%	
Life expectancy	Mechanical: 10,000,000 operations min. (under no load at 1,800 operations/h) Electrical: 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) (see note 2)	
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) EN61812-1 Emission Enclosure: EN55011 Group 1 class A Emission AC Mains: EN55011 Group 1 class A (EMS) EN61812-1 Immunity ESD: EN61000-4-2:8 kV air discharge (level 3) Immunity RF-interference from AM Radio Waves: EN61000-4-3: 10 V/m (80 MHz to 1 GHz) (level 3) Immunity Burst: EN61000-4-4: 2 kV power-line (level 3) 2 kV I/O signal-line (level 4) Immunity Surge: EN61000-4-5: 2 kV line to ground (level 3) 1 kV line to line (level 3)	
Approved standards	UL508, CSA C22.2 No. 14, Lloyds Conforms to EN61812-1 and IEC60664-1. (2.5 kV/2 for H3YN-2/-21, 2.5 kV/1 for H3YN-4/-41, H3YN- 4-Z/-41-Z) Output category according to EN60947-5-1.	

Note: 1. Terminal screw sections are excluded.

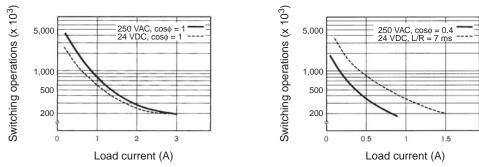
2. Refer to the Life-test Curve.

Life-test Curve (Reference Value)



A maximum current of 0.6 A can be switched at 125 VDC ($\cos \phi = 1$). Reference: 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).

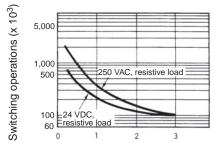
H3YN-4/-41



A maximum current of 0.5 A can be switched at 125 VDC ($\cos\phi = 1$). Reference: 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



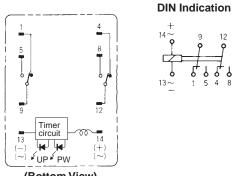
Load current (A)

Reference: <u>A maximum current of 0.5 A can be switched at 125 VDC ($\cos\phi = 1$).</u> 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



(Bottom View)

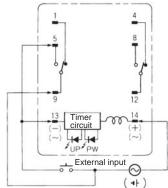
Pulse Operation

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.

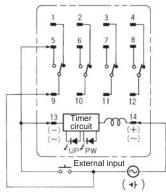
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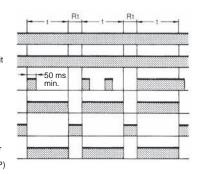
H3YN-2/-21







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

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Timer

circuit

YUP Y PW

(Bottom View)

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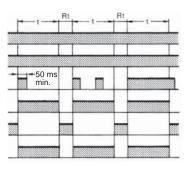
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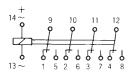
Power (9-14) External short circuit (5-13) External input (9-13) Time limit contact NO (10-6, 11-7, 12-8) Time limit contact NC (10-2, 11-3, 12-4) Run/Power indicator (PW) Output indicator (UP)



Note: t: Set time Rt: Reset time

- ⁄!\ Caution -Be careful when connecting wires.

Mode	Terminals
	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



Operation

■ Timing Chart

Operating mode	Timin	g chart
	H3YN-2/-21	H3YN-4/-41
ON-delay		
Power	Power (13-14) Time limit contact	Power (13-14) Time limit contact NC (9-1, 10-2, 11-3,
Output	NC (9-1, 12-4) Time limit contact NO (9-5, 12-8)	12-4) Time limit contact NO (9-5, 10-6, 11-7,
	Run/Power indicator	12-8) Run/Power indicator (PW)
	Output indicator	Output indicator (UP)
Interval		
Power	Power (13-14)	Power (13-14)
Output	Time limit contact NC (9-1, 12-4)	Time limit contact
	Time limit contact NO (9-5, 12-8)	Time limit contact NO (9-5, 10-6, 11-7,
	Run/Power indicator (PW)	Run/Power indicator (PW)
	Output indicator (UP)	Output indicator (UP)
Flicker OFF-start		
Power	Power (13-14)	Power (13-14)
	Time limit contact NC (9-1, 12-4)	Time limit contact NC (9-1, 10-2, 11-3,
Output	Time limit contact NO (9-5, 12-8)	Time limit contact NO (9-5, 10-6, 11-7,
	Run/Power indicator (PW)	Run/Power indicator
	Output indicator (UP)	Output indicator (UP)
Flicker ON-start	Power (13-14)	Power (13-14)
	Time limit contact NC (9-1, 12-4)	Time limit contact
Output	Time limit contact NO (9-5, 12-8)	Time limit contact NO (9-5, 10-6, 11-7,
	Run/Power indicator (PW)	Run/Power indicator (PW)
	Output indicator (UP)	Output indicator (UP)

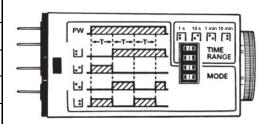
Note: t: Set time Rt: Reset time

■ 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
H3YN-2, H3YN-4	1 s	0.1 to 1 s		Yes
H3YN-4-Z	10 s	1 to 10 s		No
	1 min	0.1 to 1 min		No
	10 min	1 to 10 min		No
H3YN-21, H3YN-41	1 min	0.1 to 1 min		Yes
H3YN-41-Z	10 min	1 to 10 min		No
	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

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.

Nomenclature

Output Indicator (Orange) -(Lit: Output ON)

Main Dial

Set the desired time according to time range selectable by DIP switch.



Run/Power Indicator (Green) (Lit: Power ON)

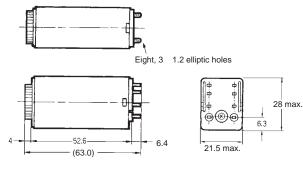
Dimensions

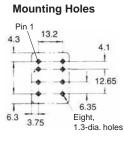
Note: All units are in millimeters unless otherwise indicated.

■ Timers

H3YN-2/-21 Front Mounting

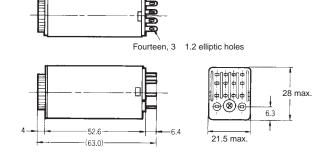




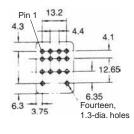


H3YN-4/-41 Front Mounting H3YN-4-Z/-41-Z



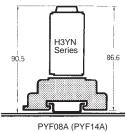




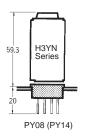


Mounting Height

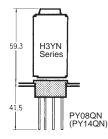
PYF08A/PYF08A-N/PYF08A-E (PYF14A/PYF14A-N/PYF14A-E (see note))



PY08 (PY14 (see note))



PY08QN (PY14QN (see note))



Note: Models in parentheses are Connecting Sockets to the H3YN-4/-41 or H3YN-4-Z/-41-Z.

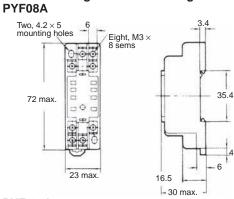
H₃YN

■ Accessories (Order Separately)

Connecting Sockets

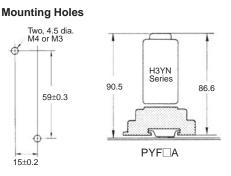
Use the PYF_A, PY_, PY_-02, or PY_QN(2) to mount the H3YN. When ordering any one of these Sockets, replace "" with "08" or "14."

Track Mounting/Front Connecting Sockets

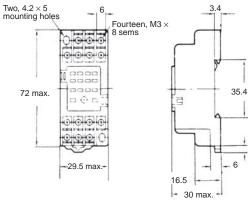


(Top View) 00 0 0 Æ ø Ð

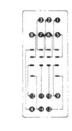
Terminal Arrangement



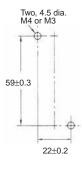
PYF-14A



Terminal Arrangement (Top View)

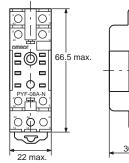


Mounting Holes



Mounting Holes (for Surface Mounting)

PYF-08A-N



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-9 12 41 11 $(14)^{1}(14)$ 13 A2 A2 A1

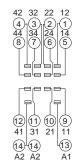
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Terminal Arrangement

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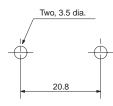
Terminal Arrangement

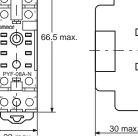


3.6 dia. 19.8

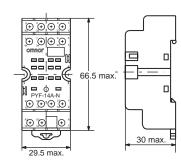
3.2 dia.

Mounting Holes (for Surface Mounting)

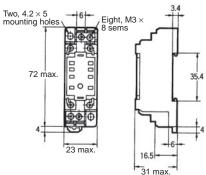




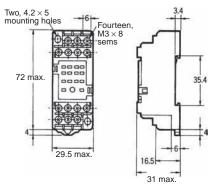
PYF-14A-N



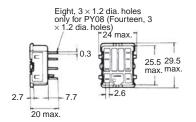
PYF08A-E



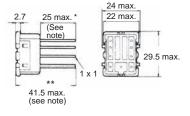
PYF14A-E



Back Connecting Sockets PY08, PY14

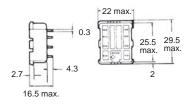


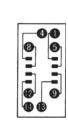
PY08QN, PY14QN PY08QN(2), PY14QN(2)



Note: With PY QN(2)(-3), dimension * should read 20 max. and dimension ** 36.5 max.

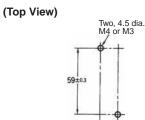
PY08-02, PY14-02



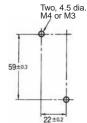


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(Top View)



15±02

0	0	00	80
6	8	00	08
9	Ð	90	00
B	12	₿	14

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Terminal Arrangement
(Bottom View)

0	0	00	80
6	8	66	08
9	Ð	90	00
B	1	1	14

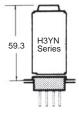
PY08QN(2) PY14QN(2)

Terminal Arrangement (Bottom View)

0	0	00	00
5	8	60	08
9	Ð	9000	
B	1	1	14

Panel Cutout

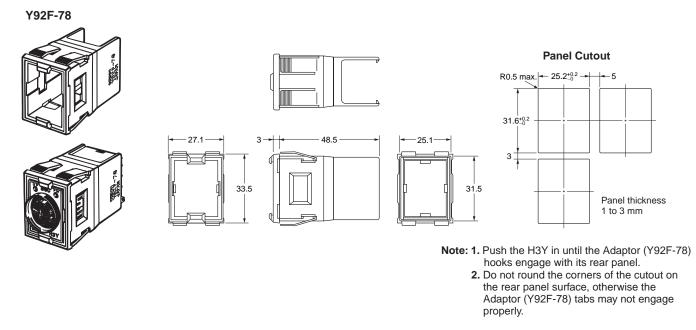




PY□, PY□-02, PY□QN(2)

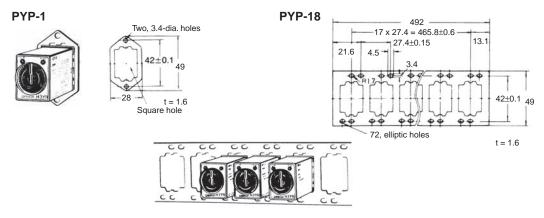
H₃YN

Flush Mounting Adapter



Socket Mounting Plates

The PYP-1 is a Socket Mounting Plate for a single Socket and the PYP-18 is a Socket Mounting Plate for 18 Sockets. The PYP-18 can be cut appropriately according to the number of Sockets to be used.



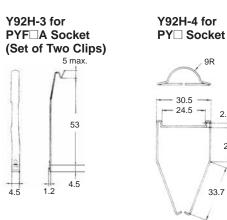
Hold-down Clips

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

Y92H-3 Y92H-4

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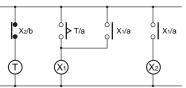
Safety Precautions

Refer to Safety Precautions for All Timers.

Correct Use

The operating voltage will increase 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 voltages (at 12 VDC: 95% to 110%).

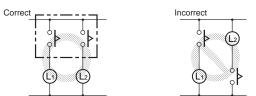
Do not leave the H3YN in time-up condition for a long period of time (for example, more than one month in any place where the ambient temperature is high), otherwise the internal parts (aluminum electrolytic capacitor) may become damaged. Therefore, the use of the H3YN with a relay as shown in the following circuit diagram is recommended to extend the service life of the H3YN.



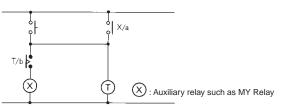
(x): Auxiliary relay such as MY Relay

The H3YN 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 H3YN as shown in the following circuit diagram on the right hand side, otherwise the H3YN'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 H3YN 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 6 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 H3YN in places where there is excessive dust, corrosive gas, or direct sunlight.

Do not mount more than one H3YN closely together, otherwise the internal parts may become damaged. Make sure that there is a space of 5 mm or more between any H3YN 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 H3YN.

In order to conform to UL and CSA requirements when using the H3YN-4/-41 or H3YN-4-Z/-41-Z, 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.

Precautions for EN61812-1 Conformance

The H3YN as a built-in timer conforms to EN61812-1 provided that the following conditions are satisfied.

Handling

Do not touch the DIP switch while power is supplied to the H3YN.

Before dismounting the H3YN from the Socket, make sure that no voltage is imposed on any terminal of the H3YN.

The applicable Socket is the PYF

Only basic insulation is ensured between the Y92H-3 Hold-down Clips and H3YN 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 H3YN must be protected with equipment such as a breaker approved by VDE.

Basic insulation is ensured between the H3YN's operating circuit and control output.

Basic insulation:

Overvoltage category II,

pollution degree 1 (H3YN-4/-41, H3YN-4-Z/-41-Z), pollution degree 2 (H3YN-2/-21) (with a clearance of 1.5 mm and a creepage distance of 2.5 mm at 240 VAC)

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

In the interest of product improvement, specifications are subject to change without notice.

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- · Systems, machines, and equipment that could present a risk to life or property.

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