

Basic & Simplified Controls for Machines & Systems

H3/H5 Series Timers



- Slim, space-saving design
- Less wiring & maintenance time
- Good visibility & accuracy

80 years of dedication to technology and quality

Continuous improvement is our ethos

It's been 80 years since we produced our first product: an X-Ray Timer. With each new product we provide more value to the customer while leading control panels to a higher level of performance and ease of build.

To pursue the same high quality & best service in the world

As one of the world's leading suppliers of industrial automation solutions, we not only deploy the latest techniques in our own factories we also practice rigorous quality assurance systems. The result? Products and services you can rely on.



X-Ray Timer



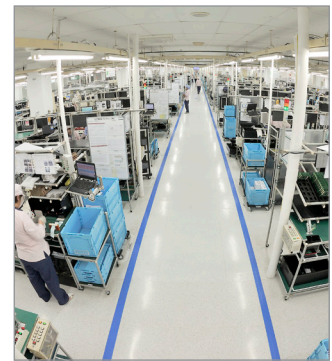
Omron manufacturing Shanghai



Omron manufacturing Indonesia



Surface Mount Technology (Chip Mounter line)



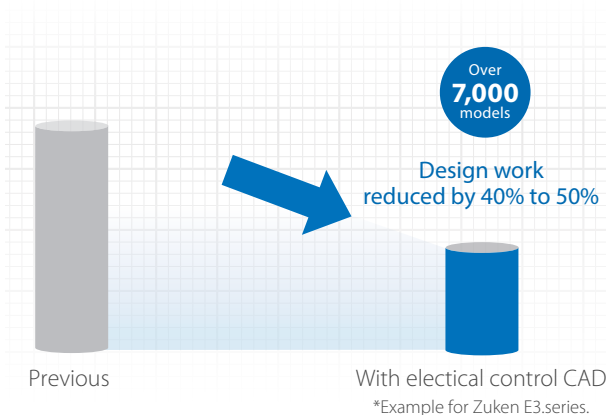
Assembling line

Efficient design

Our CAD library of products (industrial.omron.eu/cadlibrary) saves you time and reduces design effort.

Download a high-quality your CAD library

Partners in panel design



Zuken Inc.

E3.series is a product name of Zuken Inc. for their Electrical and Control Cable Design Solution.

zuken.com

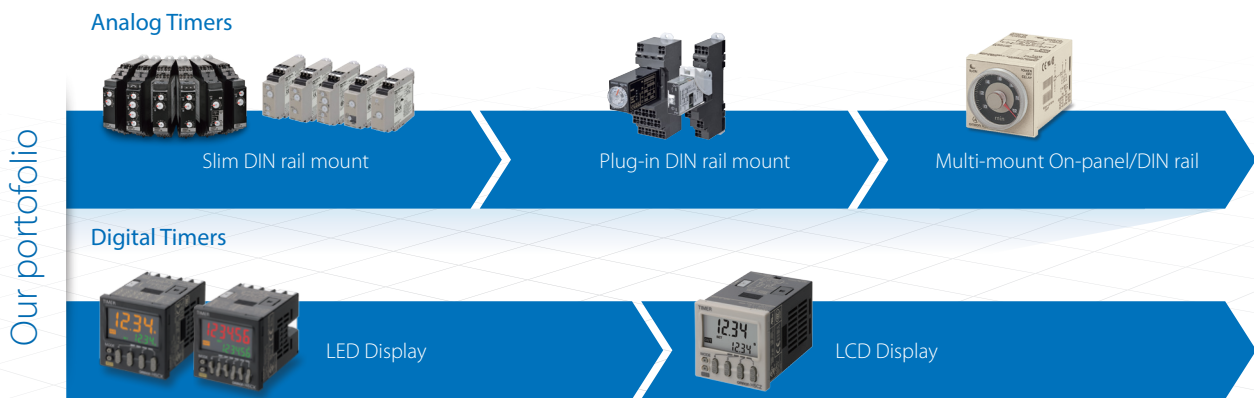
EPLAN

EPLAN is a registered trademark of EPLAN Software & Service GmbH & Co. KG.

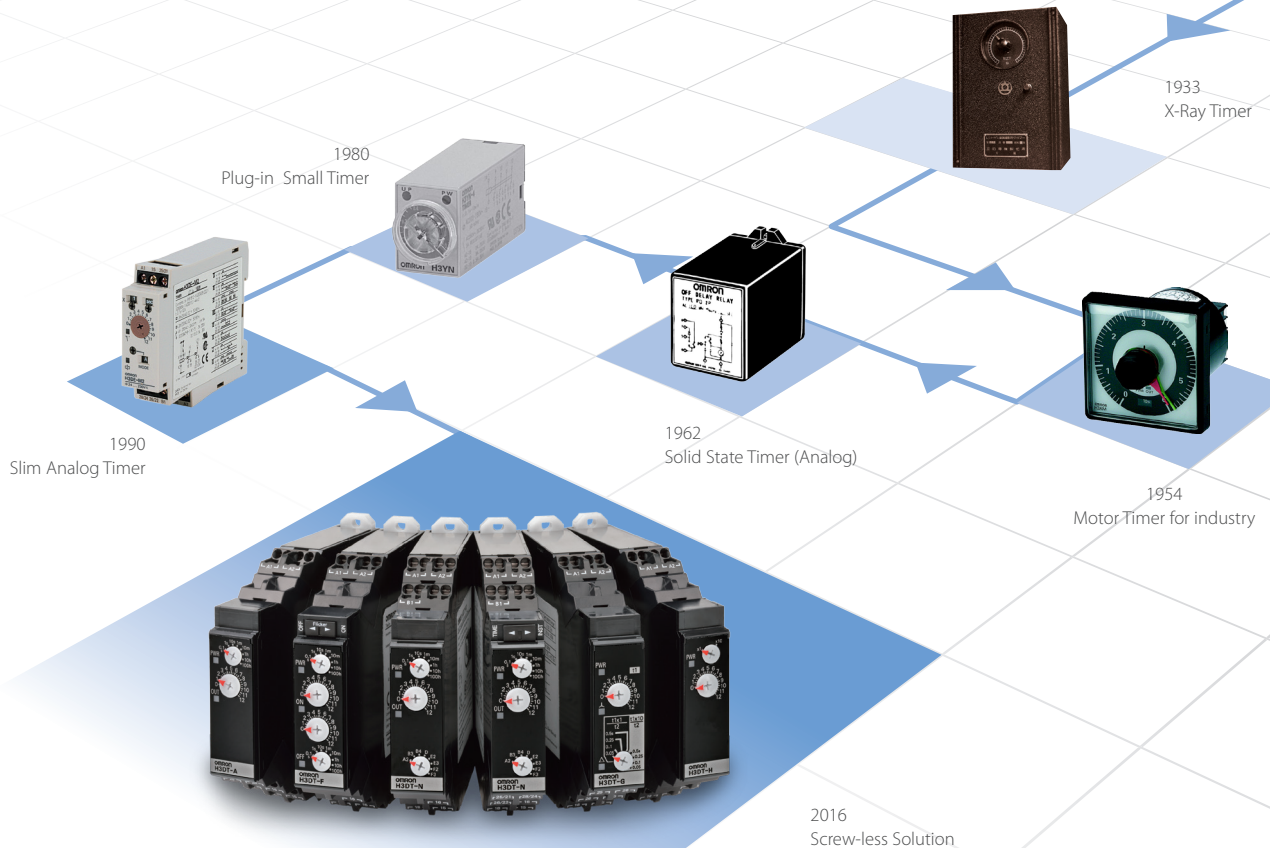
industrial.omron.eu/eplan

When time counts... We're your Timer product solution!

- Wide variety of Timer Portfolio supported by 80 years' experience
- Certified for safety standards globally
- Products continuously adapted with new technology and towards all application needs.



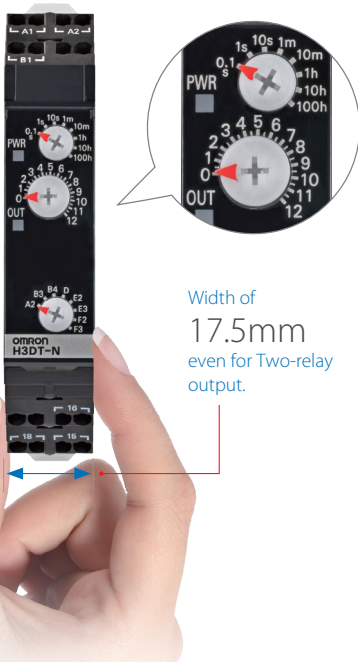
Development in technology and quality over 80 years



Slim, space-saving design

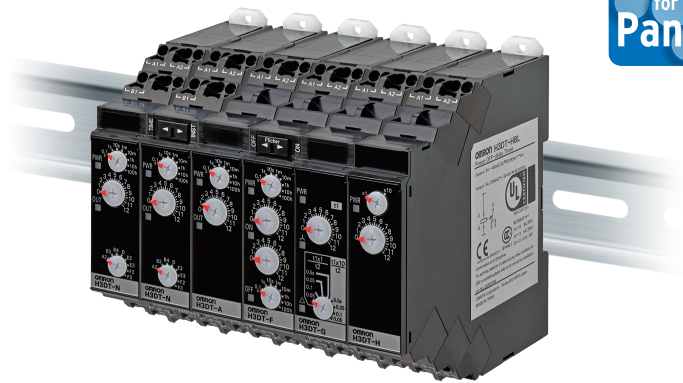
H3DT Series, Slim Solid State Timer

- Ideal for freeing-up space in the panel
- Reduces wiring time by up to 60% thanks to Push-in Plus Technology
- Very convenient for sequence operation before PLC start-up
- Supplementary time control when PLC fails.



Width of 17.5mm even for Two-relay output.

Dial size is equivalent to our previous model of 22.5mm width to ensure operability. Rotary switches simplify the setting procedure by a click-sound and red arrow marking



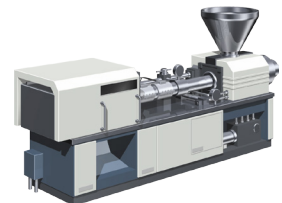
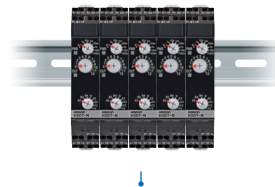
Half power consumption*1

At least 3 times life expectancy *2

Operating temperature of 60°C

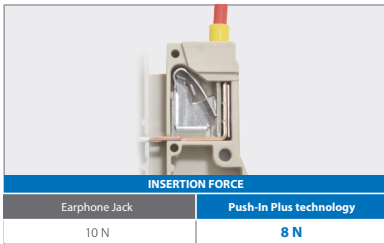
*1. Comparison with previous Omron Timer (excluding the H3DT-H).
 *2. Comparison with previous Omron Timer under adverse conditions.

No additional side space by Lower Power consumption

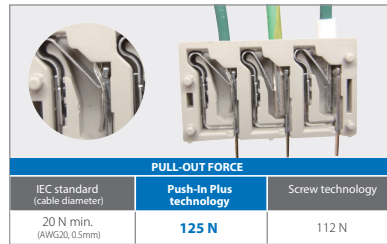


Faster wiring, thanks to Push-in Plus technology

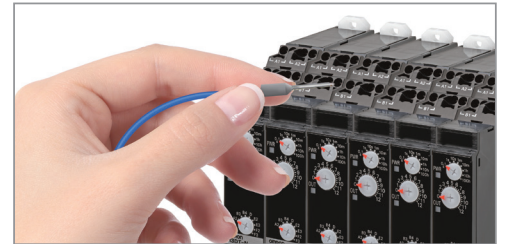
Light insertion force



Strong and secure connection



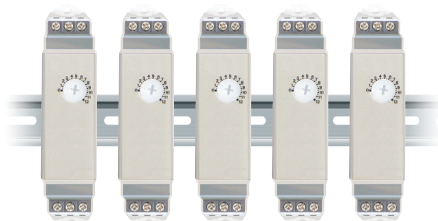
Strong and secure connection



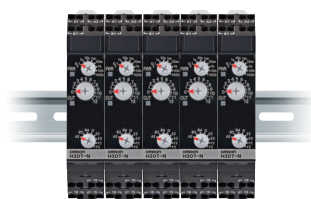
Best-in-class (*1) power consumption

Power consumption is low, which reduces the DC power supply load for the entire control panel.

Previous Omron Timer



H3DT



60%
lower power
consumption*2

- *1. According to Omron investigation in November 2015.
- *2. Comparison with previous Omron Timer (excluding the H3DT-H).
- *3. Comparison with previous Omron Timer under adverse conditions.

The expected service life is more than THREE times*3

Reduces the work and cost involved in replacement and other maintenance.

Slim Timer family



H3DK
22.5 mm
Screw type, 2 x SPDT



H3DS
17.5 mm
Screw type, 1 x SPDT

Accessories



Y92A-D1A
Front cover

Certified for safety standards globally**

The Timers help to reduce the work involved in control panel design with certifications and compliance for various standards, including UL Listing.

** Please check safety standard per model



*1 CSA conformance evaluation by UL (DNV-GL is pending for certification)

Less wiring & maintenance

H3YN-B Series, Plug-in Timer

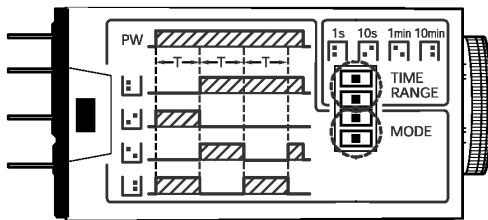
- Ideal for water control systems and power facilities
- Plug-in style ensures easy replacement - ideal longer life panels
- Range of accessories to speed up wiring times even further.



Product features



Wider setting for Time mode & Time range by DIP Switch



Good hold & precise positioning by a jagged disk

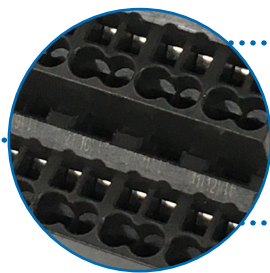
Main Dial
Set the desired time according to time range selectable by DIP switch.

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



Output Indicator (Orange)
(Lit: Output ON)

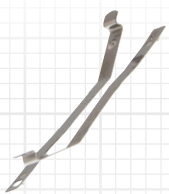
Easy wiring by the combination with Push-in plus technology socket



Short bar solution enables common connection when several timers are installed closely.

Double wiring holes for one pole enables common connection when the timer is located on a different line.

PYF-14-PU Push-in Plus Accessories



Clip	Screw Socket	Screw-less Socket	H3RN-B	H3Y-B
Y92H-3	PYF08A PYF14A	PYF-08-PU-L PYF-14-PU-L	Multi-mode 1 x SPDT or 2 x SPST	On-delay Single time range DPDT or 4PDT

Good visibility & accurate setting

H3CR/H5CX Series, Analog Timer & Digital Timer

- Ideal for applications such as traffic control systems or small machines which do not have a Programmable Terminal (Touch Panel)
- Good visibility & accurate setting help operators adjust setting precisely.
- DIN48x48mm, size, Panel installation is possible by the mounting adaptor.

Product features

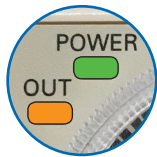
H3CR Series, Analog Timer

Easy to know the status of output

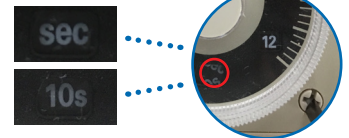
Power LED flashes when it starts the count up



Out LED lights when the output is on-status



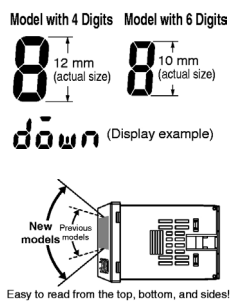
Easy to see the setting status



The numbers on the unit change along with the setting.



H5CX Series, Digital Timer, bigger LED Letters & Wider Angle



Easy to know the status of output by Switchable Display color



Before the setting value



On status and it change the color






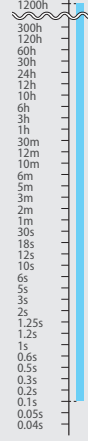

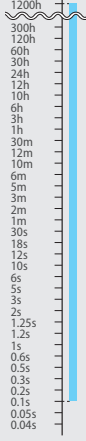
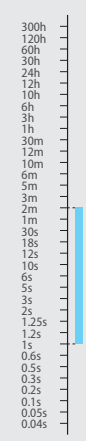
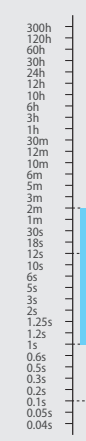
Accessories



On Panel Mounting Adaptor	DIN rail Mount Socket	Hard protect Cover	Soft protect Cover	Waterproof packing
Y92F-30	P2CF-08-E P2CF-11-E	Y92A-48B	Y92A-48F1	Y92S-29

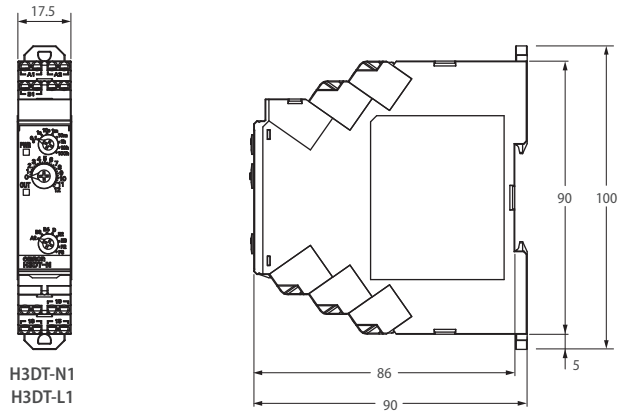
Selection Guide

Slim Timer H3DT series

Timer category		Analog Timer				
		Multi operation	Power ON Delay	Twin Timer	Star-Delta Timer	Power OFF Delay
Operation mode		ON-delay Flicker Signal ON/OFF-delay Signal OFF-delay Interval Signal OFF-interval One-shot Cumulative	ON-delay	Flicker OFF start Flicker ON start (Independent time setting for ON time and for OFF time)	Star-Delta	Power OFF Delay
Model name		H3DT-L/N	H3DT-A	H3DT-F	H3DT-G	H3DT-H
Appearance		 17.5×90	 17.5×90	 17.5×90	 17.5×90	 17.5×90
Mounting method	Direct Mount	—	—	—	—	—
	On-Panel Mount	—	—	—	—	—
	DIN-Rail Mount	■	■	■	■	■
	On board Mount	—	—	—	—	—
Time setting	Cover range of time					
	Numbers of scale change	8	8	8	2	8
Terminal structure		Screwless terminal (Push-in Plus)	Screwless terminal (Push-in Plus)	Screwless terminal (Push-in Plus)	Screwless terminal (Push-in Plus)	Screwless terminal (Push-in Plus)
Power supply voltage		AC/DC24~240 V	AC/DC24~240 V	AC/DC24~240 V	AC/DC24~240 V	<ul style="list-style-type: none"> AC100-120 V AC200-240 V AC/DC24-48 V
Control output	Relay	Time output	■ 250 VAC/30 VDC 5 A	■ 250 VAC/30 VDC 5 A	■ 250 VAC/30 VDC 5 A	■ 250 VAC/30 VDC 5 A
		Time & Instantaneous output	■ 250 VAC/30 VDC 5 A	—	—	—
	Transistor	—	—	—	—	—
Time accuracy	Accuracy of operating time	±1% FS max.				
	Setting error	±10% FS max ±0.05 s FS max				
	Influence of voltage	±0.5% FS max				
	Influence of temperature	±2% FS max				
Standards		CE, UL, CSA, LR, CCC, DNV-GL				

Selection Guide

Dimensions



Model number legend

H3DT-□□□□
1 2 3 4

1. Type

Symbol	Meaning
N	Standard Eight-mode Timer
L	Expansion Eight-mode Timer
A	Power ON-delay Timer
F	Twin Timer
G	Star-delta Timer
H	Power OFF-delay Timer

2. Control Output *

Symbol	Meaning
1	SPDT
2	DPDT

* N-, L- and A-type models only.

3. Supply Voltage

Symbol	Meaning
Blank	24 to 240 VAC/DC
B *	24 to 48 VAC/DC
C *	100 to 120 VAC
D *	200 to 240 VAC

* H-type models only.

4. Time Ranges *



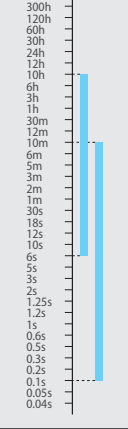
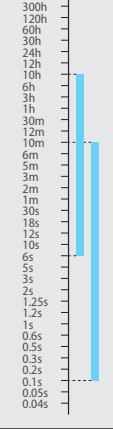
Symbol	Meaning
S	0.1 to 1.2 s or 1 to 12 s
L	1 to 12 s or 10 to 120 s

* H-type models only.

Selection Guide

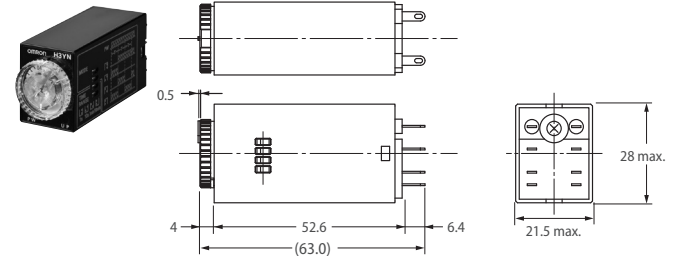
Plug-in socket series

Selection guide

Timer category		Analog Timer		
		Multi operation	Multi operation	
Operation mode		ON-delay Flicker OFF start Flicker ON start Interval	ON-delay Flicker OFF start Flicker ON start Interval	
Model name		H3YN-B	H3RN-B	
Appearance		 21.5×28	 12.8×31.2	
Mounting method	Direct Mount	■	■	
	On-Panel Mount	■	-	
	DIN-Rail Mount	■	■	
	On board Mount	-	-	
Time setting	Cover range of time			
	Numbers of scale change	4	4	
Terminal structure		Plug-in connection 8 pins or 11 pins	Plug-in connection 5 pins or 8 pins	
Power supply voltage		<ul style="list-style-type: none"> AC100-120 V AC200-240 V DC100-110 V AC24 V DC12 V DC24 V DC48 V 	<ul style="list-style-type: none"> AC24 V DC12 V DC24 V 	
Control output	Relay	Time output	■ DPDT: 250 VAC 5 A 4PDT: 250 VAC 3 A	■ 250 VAC 5 A
		Time & Instantaneous output	-	-
		Transistor	-	-
Time accuracy	Accuracy of operating time	±1% FS max. (1 s range: ±1% ±10 ms max.)		
	Setting error	±10% FS max ±0.05 s FS max	±15% FS max ±0.05 s FS max	
	Influence of voltage	±2% FS max		
	Influence of temperature	±2% FS max		
Standards		CE, UL, CSA, LR, CCC	CE, UL, CSA	

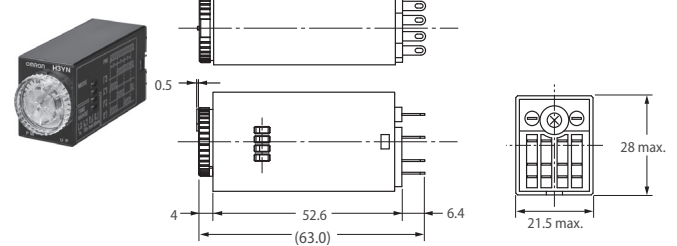
Dimensions

H3YN-2-B/-21-B Front Mounting

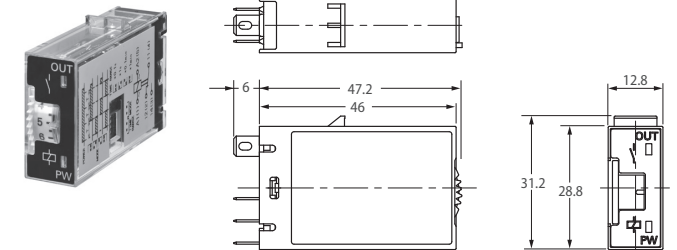


H3YN-4-B/-41-B Front Mounting

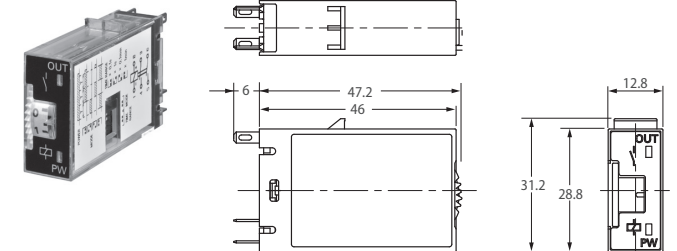
H3YN-4-Z-B/-41-Z-B



H3RN-1-B/H3RN-11-B Front Mounting

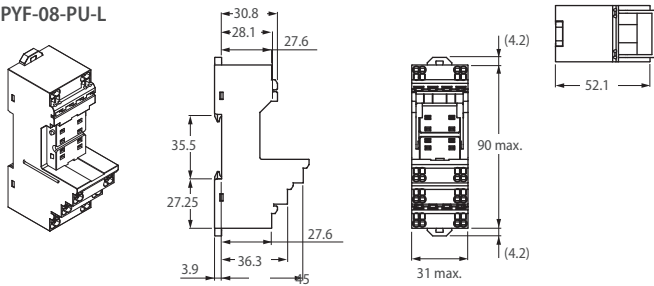


H3RN-2-B/H3RN-21-B Front Mounting

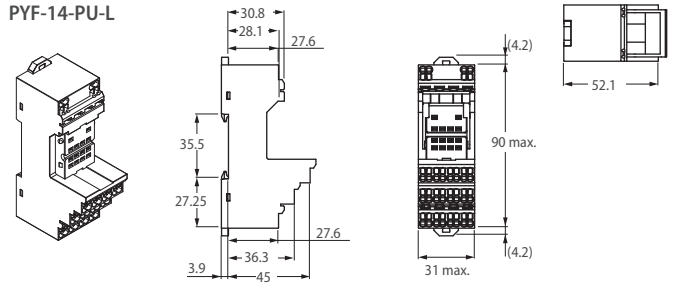


Selection Guide

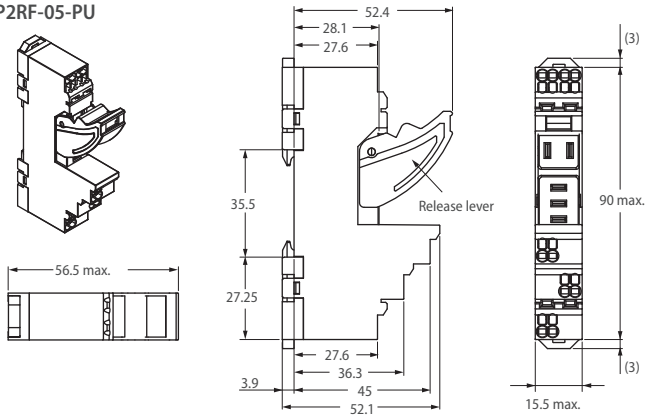
PFY-08-PU-L



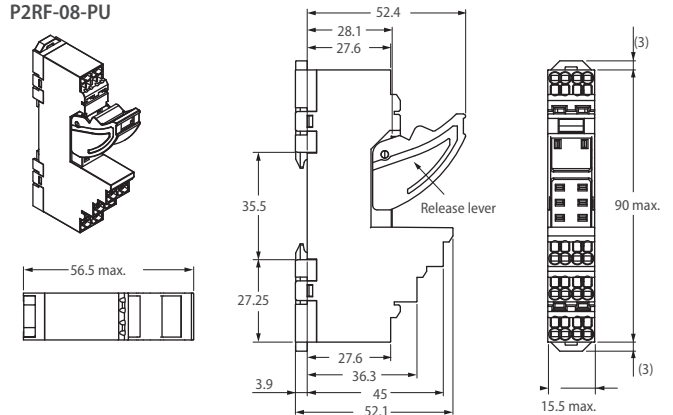
PFY-14-PU-L



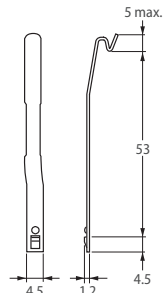
P2RF-05-PU



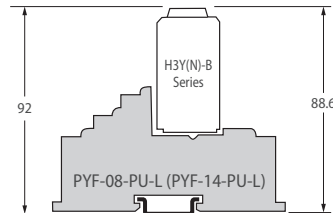
P2RF-08-PU



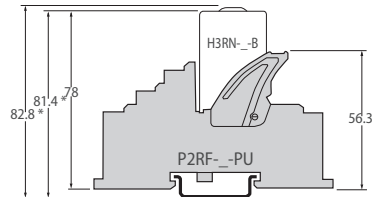
H3Y-_-B/H3YN-_-B Series for PFY-_-PU-L Socket Y92H-3 (Set of two clips)



PFY-08-PU-L (PFY-14-PU-L *2)



P2RF-_-E



Note: There are no restrictions to the mounting direction.

* These values apply when the PFP-_-N is used.
Add 9 mm if you use the PFP-_-N2.

Model number legend

H3YN-□□□□
1 2 3 4

(1) Output		(2) Time range		(3) Contact type	
Symbol	Meaning	Symbol	Meaning	Symbol	Meaning
2	DPDT	None	Short-time range	None	Single contact
4	4PDT	0	Long-time range	Z	Twin contacts

(4) Body color and Terminal arrangement

Symbol	Meaning
None	Beige with output terminals on top and power supply terminals on bottom
B	Black with power supply terminals on top and output terminals on bottom

Ex: H3YN-2 100 to 120 VAC
Supply voltage

Accessories (Order separately)

Clip

Name/specification	Model
Clip	For PFY-□□-PU-L Y92H-3

Socket

Timer		Square Sockets				
Contact	Model	Pin	Connection	Terminal	Model	Terminal Type
DPDT	H3YN-2_-B	8-pin	Front	DIN track mounting	PFY-08-PU-L	Push-In Plus
4PDT	H3YN-4_-B	14-pin	Connecting		PFY-14-PU-L	Terminal Block

Note: Cannot be used with the H3YN-_-0 (PCB terminals).

Model number legend

H3RN-□□-B
1 2

(1) Output		(2) Time range	
Symbol	Meaning	Symbol	Meaning
1	SPDT	None	Short-time range (0.1 s to 10 min)
2	DPST-NO	1	Long-time range (0.1 min to 10 hrs)

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)
24 VAC;	SPDT	H3RN-1-B	H3RN-11-B
12, 24 VDC	DPST-NO	H3RN-2-B	H3RN-21-B

Note: Specify both the model number and supply voltage when ordering.

Example: H3RN-1-B 24 VAC
Supply voltage





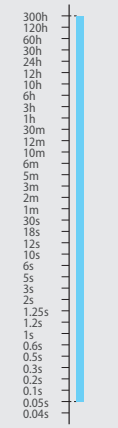
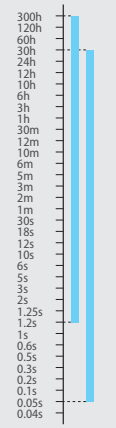
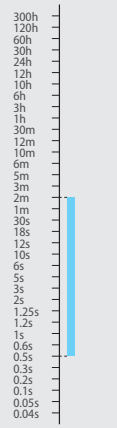
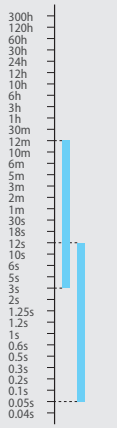
Accessories (Order separately)

Socket

Timer	Track mounting/Front connecting socket
H3RN-1-B/-11-B	P2RF-05-PU
H3RN-2-B/-21-B	P2RF-08-PU

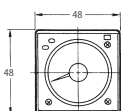
Selection Guide

On Panel series

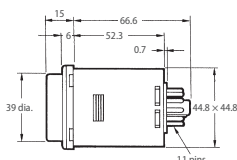
Timer category		Analog Timer				
		Multi operation	Twin Timer	Star-Delta Timer	Power OFF Delay	
Operation mode		ON-delay Flicker Signal ON/OFF-delay Signal OFF-delay Interval One-shot	Flicker OFF start Flicker ON start (Independent time setting for ON time and for OFF time)	Star-Delta	Power OFF Delay	
Model name		H3CR-A	H3CR-F	H3CR-G	H3CR-H	
Appearance		 DIN 48x48	 DIN 48x48	 DIN 48x48	 DIN 48x48	
Mounting method	Direct Mount	■	■	■	■	
	On-Panel Mount	■	■	■	■	
	DIN-Rail Mount	■	■	■	■	
	On board Mount	-	-	-	-	
Time setting	Cover range of time					
	Numbers of scale change	20	20	4	4	
Terminal structure		Plug-in connection 8 pins or 11 pins	Plug-in connection 8 pins or 11 pins	Plug-in connection 8 pins	Plug-in connection 8 pins or 11 pins	
Power supply voltage		<ul style="list-style-type: none"> AC100~240 VAC/100~125 VDC 24~48 VAC/12~48 VDC 	<ul style="list-style-type: none"> AC100~240 VAC/100~125 VDC 24~48 VAC/12~48 VDC 	<ul style="list-style-type: none"> 100/110/120 VAC 200/220/240 VAC 24 VAC/DC 48 VDC 100-125 VDC 	<ul style="list-style-type: none"> 100/110/120 VAC 200/220/240 VAC 	
Control output	Relay	Time output	■ 250 VAC/30 VDC 5 A 125 VDC 0.15 A	■ 250 VAC/30 VDC 5 A	■ 250 VAC/30 VDC 5 A	■ 250 VAC/30 VDC 5 A
		Time & Instantaneous output	■ 250 VAC/30 VDC 5 A 125 VDC 0.15 A	-	■ 250 VAC/30 VDC 5 A	-
	Transistor	■ 30 VDC 100 mA	-	-	-	
Time accuracy	Accuracy of operating time	±0.2% FS max				
	Setting error	±0.5% FS max ±0.05 s max				
	Influence of voltage	±0.2% FS max				
	Influence of temperature	±1% FS max				
Standards		CE, UL, CSA, LR, CCC, NK				

Dimensions

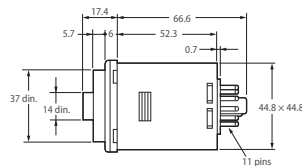
H3CR-A/F



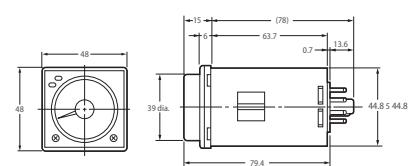
H3CR-A



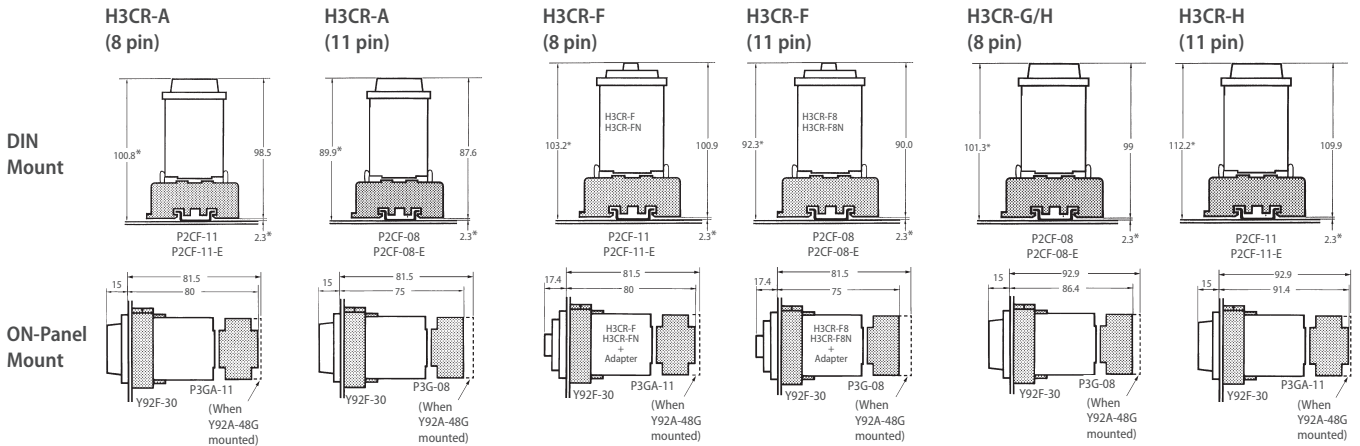
H3CR-F



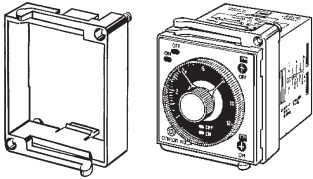
H3CR-G/H



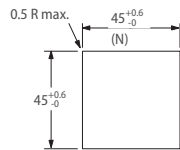
Selection Guide



Y92F-30



Panel Cutout (Conforms to DIN 43700)

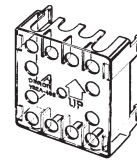


Finger Safe Terminal Cover

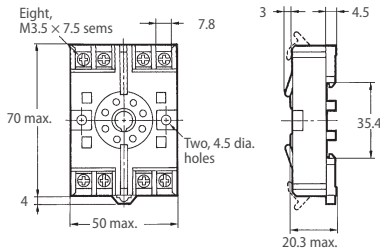
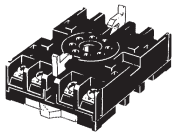
Conforming to VDE0106/P100

Y92A-48G

(Attachment for P3G-08/P3GA-11 Socket)

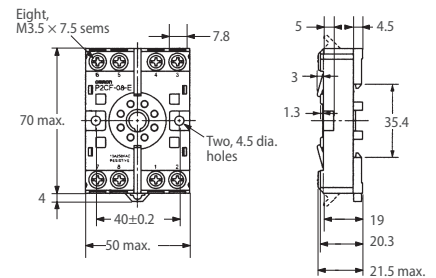
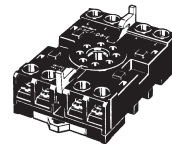


P2CF-08

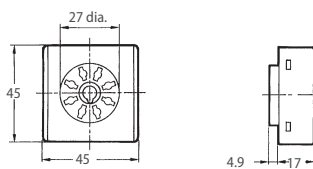
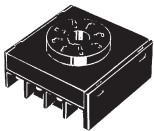


P2CF-08-E (Finger Safe Terminal Type)

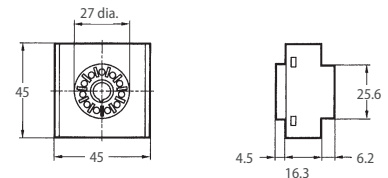
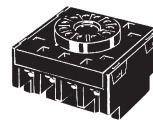
Conforming to VDE0106/P100



P3G-08



P3GA-11



Model number legend

H3CR-A□□□□□□
1 2 3 4 5

1. Number of pins

- None 11-pin models
- 8 8-pin models

2. Input type for 11-pin models

- None Relay output (DPDT)
- S Transistor output (NPN/PNP universal use)
- E Relay output (SPDT) with instantaneous relay output (SPDT)

3. Output

- None Relay output (DPDT)
- S Transistor output (NPN/PNP universal use)
- E Relay output (SPDT) with instantaneous relay output (SPDT)

H3CR-F□□□□□□
1 2 3 4 5

1. Classification

- F Twin timers

2. Configuration

- None 11-pin socket
- 8 8-pin socket

3. Twin timer mode

- None Flicker OFF start
- N Flicker ON start

4. Suffix

- 301 Double time scale (range) models (0.1 s to 600 h)

5. Supply Voltage

- 100-240AC/100-125DC Beige with output terminals on top and power supply terminals on bottom
- 24-48AC/12-48DC 24 to 48 VAC/12 to 48 VDC
- 24-48AC/DC 24 to 48 VAC/VDC (Only for H3CR-A8E)

4. Time range

- None 0.05 s to 300 h models

5. Supply Voltage

- 100-240AC/100-125DC 100 to 240 VAC/100 to 125 VDC
- 24-48AC/12-48DC 24 to 48 VAC/12 to 48 VDC

H3CR-G8□□□□□□
1 2 3 4 5

1. Classification

- G Star-delta timer

2. Configuration

- 8 8-pin socket

3. Outputs

- None Star-delta operation contact
- E Star-delta operation contact and instantaneous contact

H3CR-H□□□□□□□
1 2 3 4 5 6

1. Classification

- H Power OFF-delay timer

2. Configuration

- None 11-pin socket
- 8 8-pin socket

3. Input

- None Without reset input
- R With reset input

4. Dimensions

- L Long-body model

4. Dimensions

- L Long-body model

5. Supply Voltage

- 100-120AC 100 to 120 VAC
- 200-240AC 200 to 240 VAC

5. Supply Voltage



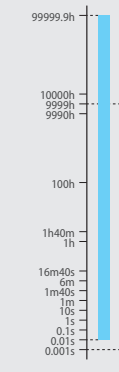
- 100-120AC 100 to 120 VAC
- 200-240AC 200 to 240 VAC
- 24AC/DC 24VAC/DC
- 48DC 48 VDC
- 100-125DC 100 to 125 VDC

6. Time Range

- S 0.05 to 12 s
- M 0.05 to 12 min

Selection Guide

On Panel series

Timer Category	Digital Timer		
	Multi operation	Twin Timer	
Operation mode	Signal ON Delay Power ON Delay Repeat cycle 1 Signal OFF Delay Interval Cumulative ON/OFF-duty-adjustable flicker Stopwatch Twin Timer Flicker	Flicker OFF start Flicker ON start (Independent time setting for ON time and for OFF time)	
Model name	H5CX	H5CZ	
Appearance	 DIN 48×48	 DIN 48×48	
Mounting method	Direct Mount	■	
	On-Panel Mount	■	
	DIN-Rail Mount	■	
	On board Mount	—	
Time setting	Cover range of time		
	Numbers of scale change	4 digits: 10 6 digits: 4	
Terminal structure	Plug-in connection 8 pins or 11 pins	Plug-in connection 8 pins	
Power supply voltage	<ul style="list-style-type: none"> AC100-240 V, AC24/DC12-24 V 		
Display	Type	LED	
	Color of letter	Green, Red, Orange	
	Digits	4 digits or 6 digits	
Waterproof	<input checked="" type="checkbox"/> IP66 with Y92S-29		
Control output	Relay	Time output	<input checked="" type="checkbox"/> 250 VAC/30 VDC 5 A 125 VDC 0.15 A
		Time & Instantaneous output	<input checked="" type="checkbox"/> 250 VAC/30 VDC 5 A 125 VDC 0.15 A
	Transistor	<input checked="" type="checkbox"/> 30 VDC 100 mA	
Time accuracy	Accuracy of operating time	<ul style="list-style-type: none"> Power Start ±0.01% 	
	Setting error	±0.05 s max	
	Influence of voltage	±0.005%	
	Influence of temperature	<ul style="list-style-type: none"> ±0.03 s max Signal Start by Transistor ±0.005% ±3 ms max 	
Standards	CE, UL, CCC		

Model number legend

H5CX-□□□□□-N
1 2 3 4 5

1. Type classifier

- A Standard type
- B 6-digit type
- L Economy type

2. External connections

- None Screw terminals
- 8 8-pin socket
- 11 11-pin socket

3. Settings

- None One stage
- W Two stages

4. Output type

- None Contact output (time-limit SPDT)
- E Contact output (time-limit SPDT + instantaneous SPDT)^{*1}
- S Transistor output

5. Supply voltage

- None 100 to 240 VAC 50/60 Hz
- D 12 to 24 VDC/24 VAC 50/60 Hz^{*2}

^{*1} Can be used as a time-limit DPDT output.

^{*2} The H5CX-BWSD-N is available only for 12 to 24 VDC.

H5CZ-L□□□
1 2 3

1. External connections

- 8 8-pin socket

2. Output type

- None Contact output (time-limit SPDT)
- E Contact output (time-limit SPDT + instantaneous SPDT)^{*1}

3. Supply voltage

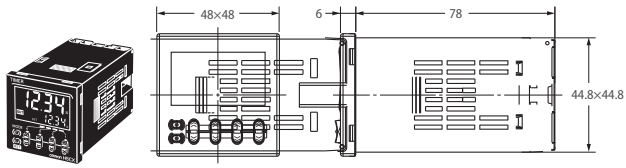
- None 100 to 240 VAC 50/60 Hz
- D 12 to 24 VDC/24 VAC 50/60 Hz

^{*1} Can be used as a time-limit DPDT output.

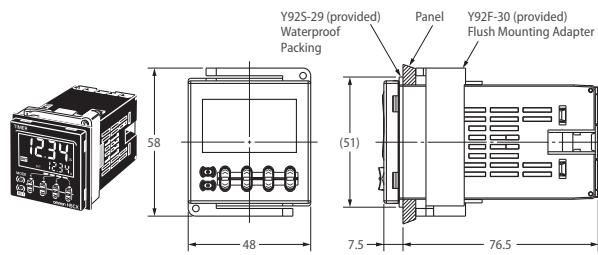
Selection Guide

Dimensions

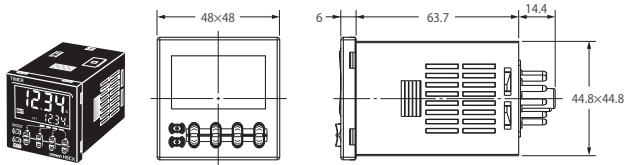
H5CX-A-N/-AS-N (Flush mounting models)



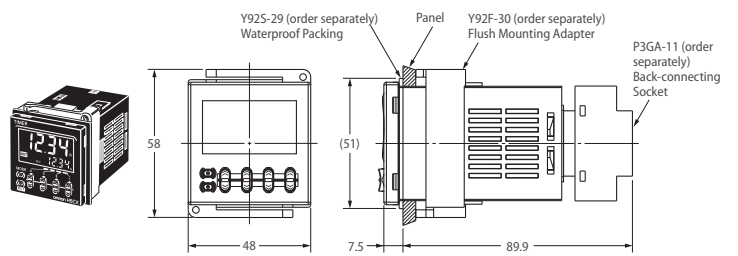
H5CX-A-N/-AS-N (Provided with Adapter and Waterproof Packing)



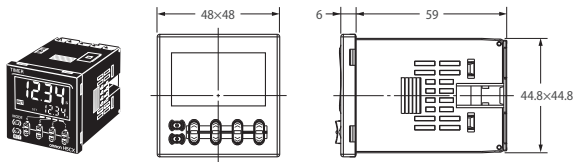
H5CX-A11□-N (Flush mounting/Surface mounting models)



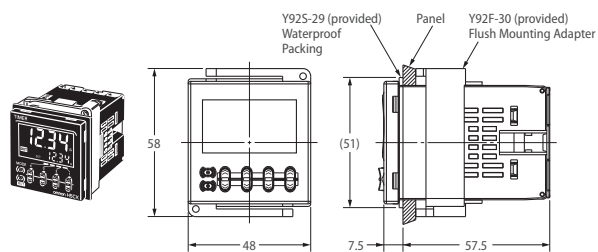
H5CX-A11□-N (Adapter and Waterproof Packing ordered separately)



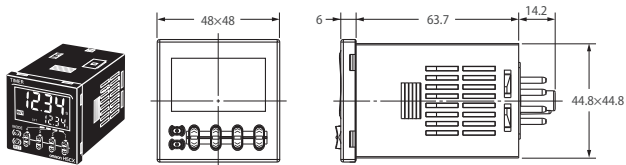
H5CX-AD-N/-ASD-N (Flush mounting models)



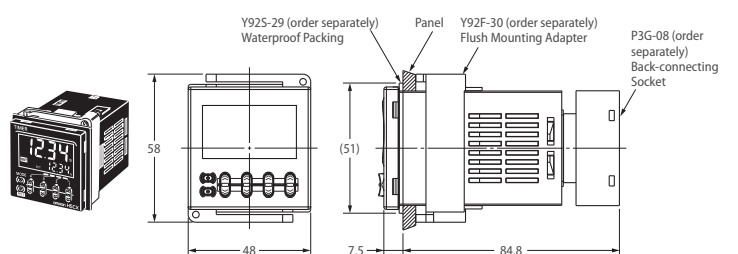
H5CX-AD-N/-ASD-N (Provided with Adapter and Waterproof Packing)



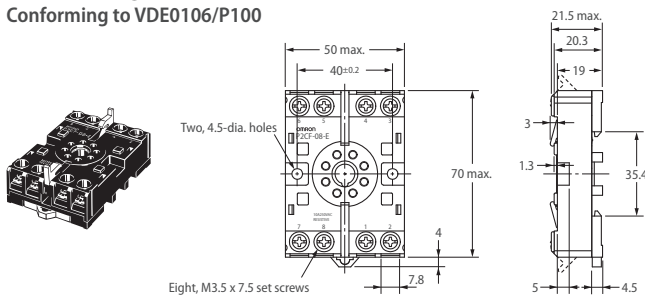
H5CX-L8□-N (Flush mounting/Surface mounting models)



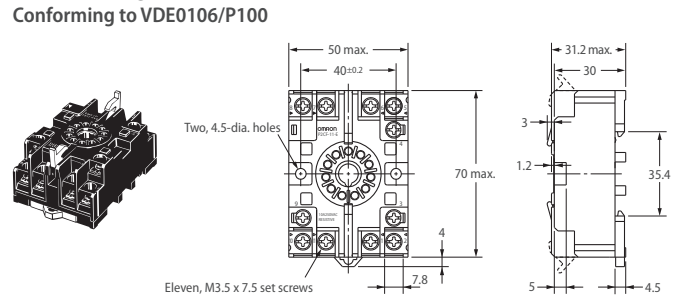
H5CX-L8□-N (Adapter and Waterproof Packing ordered separately)



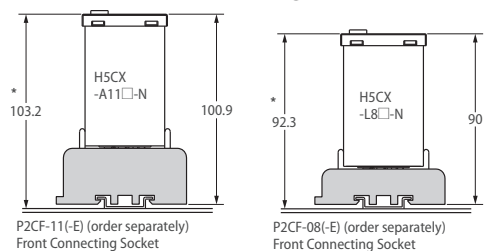
P2CF-08-E (Finger Safe terminal) Conforming to VDE0106/P100



P2CF-11-E (Finger Safe terminal) Conforming to VDE0106/P100



Dimensions with Front Connecting Socket



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