




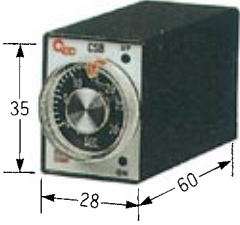

AUTOMATION TECHNIQUE

High Quality  
Reliability  
Resistance to Noise

穩定度高 信賴度高 抗雜訊強



Classification 類別		POWER ON DELAY TIMER 汎用型限時繼電器							
Appearance (mm) and Type No. 外觀尺寸及型號		 STD-F□		 STD-B□		 CSA-F□		 CSA-B□	
Mounting 安裝方式		Front (Surface) 露出		Bury (Flush) 埋入		Front (Surface) 露出		Bury (Flush) 埋入	
Socket Type 使用底座		8PFA		P3G08 OR US08 Pls specify		085A		P3G08 OR US08 With B-68 (Y-40) Adaptor	
Full Time Range 時間範圍		SEC. : 1, 2, 3, 6, 10, 30, 60, 180 MIN. : 6, 10, 30, 60 HR. : 3, 6, 12, 24				SEC. : 1, 3, 6, 10, 30, 60, 180 MIN. : 6, 10, 30, 60 HR. : 3, 6, 12			
Rated Voltage 定格電壓 AC : 80%~110% DC : 85%~110%		AC(V) 50/60Hz : 12, 24, 110, 120, 220, 240, 346, 380, 415, 440 DC(V) : 12, 24				AC(V) 50/60Hz : 12, 24, 110, 120, 220, 240 DC(V) : 12, 24			
Output Contact and Type 輸出接點及型號		Delay 1c	Delay 2c	Delay 1c Instant 1c	Delay 1c	Delay 2c	Delay 1c Instant 1c	Delay 1c	Delay 2c
		STD-FC STD-BC	STD-FD STD-BD	STD-FE STD-BE	CAS-FC CSA-BC	CSA-FD CSA-BD	CSA-FE CSA-BE	CSA-FC CSA-BC	CSA-FD CSA-BD
Life	Mechanical 機械	≥ 20 × 10 <sup>6</sup> Times (No load, 1,800 operations per hour) 2,000萬次以上 (無負載, 動作頻率1,800回/小時)							
壽命	Electrical 電氣	≥ 100 × 10 <sup>3</sup> Times (AC250V, 5A P.F. = 1; 1,800 operations per hour) 10萬次以上 (AC250V, 5A P.F. = 1; 動作頻率1,800回/小時)							
A C C U R A C Y	Repeat 往復誤差	± 0.3% Max							
	Setting 設定誤差	± 5% Max							
	Voltage 電壓誤差	± 0.5% Max							
	Temperature 溫度誤差	± 2% Max							
Reset Time	Time Up 限時時間到	≤ 40ms							
復歸 時間	Time Running 途中	≤ 100ms							
Power Consumption 消費電力		About 2 W							
Ambient Temp. 使用周圍溫度		- 10°C ~ + 55°C							
Ambient Humidity 使用周圍濕度		35%~85%RH							

Classification 類別		POWER ON DELAY TIMER 汎用型限時繼電器					
Appearance (mm) and Type No. 外觀尺寸及型號		 CSF-F□		 CSB-FC		 CSG-FC	
Mounting 安裝方式		Front (Surface) 露出		Front (Surface) 露出		Front (Surface) 露出	
Socket Type 使用底座		085A		083A		083A	
Full Time Range 時間範圍		Fix Type, Max. 12Hr. Pls specify		SEC.: 1, 3, 6, 10, 30, 60, 180 MIN.: 6, 10, 30, 60		Fix Type, Max. 60Min. Pls specify	
Rated Voltage 定格電壓 AC:80%~110% DC:85%~110%		AC(V)50/60Hz: 110, 120, 220, 240 DC(V): 12, 24					
Output Contact and Type 輸出接點及型號		Delay 1c	Delay 2c	Delay 1c Instant 1c	Delay 1c		Delay 1c
		CSF-FC	CSF-FD	CSF-FE	CSB-FC		CSG-FC
Life 壽命	Mechanical 機械	≥ 20 × 10 <sup>6</sup> Times (No load, 1,800 operations per hour) 2,000萬次以上 (無負載, 動作頻率1,800回/小時)					
	Electrical 電氣	≥ 100 × 10 <sup>3</sup> Times (AC250V, 5A P.F.=1; 1,800 operations per hour) 10萬次以上 (AC250V, 5A P.F.=1; 動作頻率1,800回/小時)					
ACCURACY 精確度	Repeat 往復誤差	± 0.3% Max.					
	Setting 設定誤差	± 5% Max.					
	Voltage 電壓誤差	± 0.5% Max.					
	Temperature 溫度誤差	± 2% Max.					
Reset Time 復歸 時間	Time Up 限時時間到	≤ 40 ms					
	Time Running 途中	≤ 100ms					
Power Consumption 消費電力		About 2W					
Ambient Temp. 使用周圍溫度		- 10°C ~ + 55°C					
Ambient Humidity 使用周圍濕度		35%~85% RH					





Classification 類別		TWIN TIMER 雙設定限時繼電器			FLICKER TIMER 閃爍繼電器						
Appearance (mm) and Type No. 外觀尺寸及型號		<p>CTW-F□      CTW-B□</p>			<p>CSK-F□      CSK-B□</p>						
Mounting 安裝方式		Front (Surface) 露出		Bury (Flush) 埋入		Front (Surface) 露出		Bury (Flush) 埋入			
Socket Type 使用底座		8PFA		P3G08 OR US08 Pls specify		085A		P3G08 OR US08 with B-68 (Y-40) Adaptor			
Full Time Range 時間範圍		6S × 6S, 60S × 60S, 6S × 60S, 60S × 6S 6M × 6M, 60M × 60M, 6M × 60M, 60M × 6M etc. Longest time 12Hr. Pls specify				3 SEC.					
Rated Voltage 定格電壓 AC:80%~110% DC:85%~110%		AC(V)/50/60Hz: 12, 24, 110, 120, 220, 240 DC(V): 12, 24									
Output Contact and Type 輸出接點及型號		Delay 1c		Delay 2c		Delay 1c Instant 1c		Delay 1c		Delay 2c	Delay 1c Instant 1c
		CTW-FC CTW-BC		CTW-FD CTW-BD		CTW-FE CTW-BE		CSK-FC CSK-BC		CSK-FD CSK-BD	CSK-FE CSK-BE
Life 壽命	Mechanical 機械	≥ 20 × 10 <sup>6</sup> Times (No load, 1,800 operations per hour) 2,000 萬次以上 (無負載, 動作頻率1,800回/小時)									
	Electrical 電氣	≥ 100 × 10 <sup>3</sup> Times (AC250V,5A P.F.=1; 1,800 operations per hour) 10萬次以上(AC250V,5A P.F.=1;動作頻率1,800回/小時)									
ACCURACY 精確度	Repeat 往復誤差	±0.3% Max.									
	Setting 設定誤差	±10% Max.									
	Voltage 電壓誤差	±0.5% Max.									
	Temperature 溫度誤差	±2% Max.									
Reset Time 復歸 時間	Time Up 限時時間到	≤ 40ms									
	Time Running 途中	≤ 100ms									
Power Consumption 消費電力		About 2 W									
Ambient Temp. 使用周圍溫度		- 10°C ~ + 55°C									
Ambient Humidity 使用周圍濕度		35%~85%RH									

FLICKER TIMER 閃爍繼電器		Classification 類別	STAR-DELTA TIMER 馬達起動限時繼電器	
		Appearance (mm) and Type No. 外觀尺寸及型號		
Front (Surface) 露出		Mounting 安裝方式	Front (Surface) 露出	Front (Surface) 露出
083A	PYF14N	Socket Type 使用底座*	8PFA	8PFA
3 SEC.		Full Time Range 時間範圍	SEC.: 30, 60 Transfer Time: 0.1S (Standard)	SEC.: 30 Transfer Time: 0.1S (Standard)
AC(V)50/60Hz: 12, 24, 110, 120, 220, 240 DC(V): 12, 24		Rated Voltage 定格電壓 AC:80%~110% DC:85%~110%	AC(V)50/60Hz: 12, 24, 110, 120, 220, 240, 346, 380, 415, 440	
Delay I <sub>c</sub>	Delay I <sub>c</sub>	Output Contact and Type 輸出接點及型號	Delay I <sub>c</sub> Instant I <sub>c</sub>	Delay I <sub>c</sub> Instant I <sub>a</sub>
CKR-FC	CKP-FC		SDM-FH	SDS-FH
$\geq 20 \times 10^6$ Times (No load, 1,800 operations per hour) 2,000萬次以上 (無負載, 動作頻率1,800回/小時)		Life	$\geq 20 \times 10^6$ Times (No load, 1,800 operations per hour) 2,000萬次以上 (無負載, 動作頻率1,800回/小時)	
$\geq 100 \times 10^3$ Times (AC250V, 5A P.F.=1; 1,800 operations per hour) 10萬次以上 (AC250V, 5A P.F.=1; 動作頻率1,800回/小時)		壽命	$\geq 100 \times 10^3$ Times (AC250V, 5A P.F.=1; 1,800 operations per hour) 10萬次以上 (AC250V, 5A P.F.=1; 動作頻率1,800回/小時)	
±0.3% Max.		ACCURACY 精確度	Repeat 往復誤差	±0.3% Max.
±10% Max.			Setting 設定誤差	±5%Max.
±0.5% Max.			Voltage 電壓誤差	±0.5% Max.
±2% Max.			Temperature 溫度誤差	±2% Max.
≤40ms		Reset Time 限時時間到	≤40ms	
≤100ms		復歸時間 Time Running 途中	≤100ms	
About 2 W		Power Consumption 消費電力	About 2 W	
-10°C ~ +55°C		Ambient Temp. 使用周圍溫度	-10°C ~ +55°C	
35%~85%RH		Ambient Humidity 使用周圍濕度	35%~85%RH	

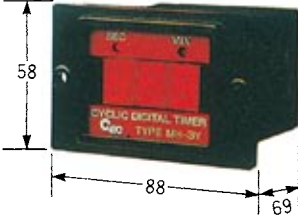


Classification 類別		DEFROST TIMER 冷凍除霜繼電器			
Appearance (mm) and Type No. 外觀尺寸及型號		 61 49 76 CAY(H)-F	 88 58 63 CAY(H)-B	 61 49 76 CKY(H)-F	 88 58 63 CKY(H)-B
Mounting 安裝方式		Front (Surface) 露出	Bury (Flush) 埋入	Front (Surface) 露出	Bury (Flush) 埋入
Socket Type 使用底座		8PFA	P3G08 OR US08 Pls Specify	8PFA	P3G08 OR US08 Pls Specify
Full Time Range 時間範圍		30M × 12H (Defrost Time × Cooling Time) (除霜時間 × 冷凍時間)		30M × 12H × 07M (Defrost Time × Cooling Time × Fan Delay Time) (除霜時間 × 冷凍時間 × 風扇延遲時間)	
Rated Voltage 定格電壓 AC:80%~110% DC:85%~110%		AC(V)50/60Hz: 12, 24, 110, 120, 220, 240 DC(V): 12, 24			
Start Defrosting by Manual Push Button 冷凍中強制除霜功能		None 無		Have 有	
End Defrosting by External Thermic Switch 除霜中止除霜功能		None 無			
External Thermostat Defrosting Termination mode		None 無			
Life	Mechanical 機械	$\geq 20 \times 10^6$ Times (No load, 1,800 operations per hour) 2,000萬次以上 (無負載, 動作頻率1,800回/小時)			
壽命	Electrical 電氣	$\geq 100 \times 10^3$ Times (AC250V, 5A, P.F.=1; 1,800 operations per hour) 10萬次以上 (AC250V, 5A P.F.=1; 動作頻率1,800回/小時)			
ACCURACY 精確度	Repeat 往復誤差	$\pm 0.3\%$ Max.			
	Setting 設定誤差	$\pm 5\%$ Max.			
	Voltage 電壓誤差	$\pm 0.5\%$ Max.			
	Temperature 溫度誤差	$\pm 2\%$ Max.			
Rest Time 復歸時間	Time Up 限時時間到	$\leq 40$ ms			
	Time Running 途中	$\leq 100$ ms			
Power Consumption 消費電力		About 2W			
Ambient Temp. 使用周圍溫度		-10°C ~ +55°C			
Ambient Humidity 使用周圍濕度		20%~90%RH			

※輸出接點容量:(H):15A 電阻性負載

DEFROST TIMER 冷凍除霜繼電器		Classification 類別	POWER OFF DELAY TIMER 斷電延時限時繼電器	
<p>CSY-F□      CSY-B□</p>		Appearance (mm) and Type No. 外觀尺寸及型號	<p>CPF-F□      FDY-FD</p>	
Front (Surface) 露出	Bury (Flush) 埋入	Mounting 安裝方式	Front (Surface) 露出	
8PFA	P3G08 OR US08 Pls Specify	Socket Type 使用底座	8PFA	085A
30M×12H (Defrost Safety Time×Cooling Time) (除霜安全時間×冷凍時間)		Full Time Range 時間範圍	SEC.: 1, 5, 10, 30, 60 MIN.: 5, 10	0.1S,0.2S,0.3S, 0.4S,0.5S Pls specify
AC(V) 50/60Hz: 12, 24, 110, 120, 220, 240 DC(V): 12, 24		Rated Voltage 定格電壓 AC:80%~110% DC:85%~110%	AC(V)50/60Hz : 110, 120, 220, 240 DC(V): 24	
Have 有		Output Contact and Type	Delay 1c (Reset)	Delay 2c
Have 有		輸出接點及型號	CPF-FC	CPF-FD
Terminate Defrosting From OFF→ON CSY-FA. CSY-BA		Life	Mechanical 機械	
Terminate Defrosting From ON→OFF (Standard) CSY-FB, CSY-BB			Electrical 電氣	
$\geq 20 \times 10^6$ Times (No load, 1,800 operations per hour) 2,000萬次以上(無負載, 動作頻率1,800回/小時)		壽命	$\geq 20 \times 10^6$ Times (No load, 1,800 operations per hour) 2,000萬次以上(無負載, 動作頻率1,800回/小時)	
$\geq 100 \times 10^3$ Times (AC250V, 5A P.F.=1; 1,800 operations per hour) 10萬次以上 (AC250V, 5A P.F.=1; 動作頻率1,800回/小時)			$\geq 100 \times 10^3$ Times (AC250V, 5A P.F.=1; 1,800 operations per hour) 10萬次以上 (AC250V, 5A P.F.=1; 動作頻率1,800回/小時)	
±0.3%Max.		ACCURACY 精確度	Repeat 往復誤差	±0.3%
±5%Max.			Setting 設定誤差	±5%
±0.5%Max.			Voltage 電壓誤差	±0.5%
±2%Max.			Temperature 溫度誤差	±2%
≤40ms		Minimum Charge Time 最小電源通電時間	CPF: ≤0.1S (About 2S For Time Range 10M) FDY: ≤0.1S	
≤100ms		Power Consumption 消費電力	About 2 W	
About 2W		Ambient Temp 使用周圍溫度	-10°C ~ +55°C	
-10°C ~ +55°C		Ambient Humidity 使用周圍濕度	35%~85% RH	
20%~90%RH				

Classification 類別		MULTI-RANGE DIGITAL TIMER 多段式數位限時繼電器								
Appearance (mm) and Type No. 外觀尺寸及型號		 MH-F□3H		 MH-B□3H		 MH-F□3N		 MH-B□3N		
Mounting 安裝方式		Front (Surface) 露出		Bury (Flush) 埋入		Front (Surface) 露出		Bury (Flush) 埋入		
Socket Type 使用底座		8PFA		P3G08 OR US08 Pls specify		8PFA		P3G08 OR US08 Pls specify		
Full Time Range (3 Digit) 時間範圍 (3位數)		SEC.: 9.99/99.9/999 MIN.: 9.59/99.9/999 HR.: 9.59/99.9/999				SEC.: 9.99/99.9/999 MIN.: 9.59/99.9/999 HR.: 9.59/99.9/999				
Full Time Range (2 Digit) 時間範圍 (2位數)		SEC.: 9.9/99 MIN.: 9.9/99 HR.: 9.9/99				SEC.: 9.9/99 MIN.: 9.9/99 HR.: 9.9/99				
Rated Voltage 定格電壓 AC:80%~110% DC:85%~110%		AC(V)50/60Hz: 12, 24, 110, 120, 220, 240, 346, 380, 415, 440 DC(V): 12, 24								
Output Contact and Type 輸出接點及型號		Delay 1c (GATE.RESET)	Delay 2c	Delay 1c Instant 1c	Delay 1c (GATE.RESET)	Delay 2c	Delay 1c Instant 1c	Delay 1c (GATE.RESET)	Delay 2c	Delay 1c Instant 1c
		MH-FC MH-BC	MH-FD MH-BD	MH-FE MH-BE	MH-FC MH-BC	MH-FD MH-BD	MH-FE MH-BE	MH-FC MH-BC	MH-FD MH-BD	MH-FE MH-BE
Life	Mechanical 機械	≥ 20 × 10 <sup>6</sup> Times (No load, 1,800 operations per hour) 2,000萬以上 (無負載, 動作頻率1,800回/小時)								
壽命	Electrical 電氣	≥ 100 × 10 <sup>3</sup> Times (AC250V, 5A, P.F. = 1; 1,800 operations per hour) 10萬次以上 (AC250V, 5A, P.F. = 1; 動作頻率1,800回/小時)								
ACCURACY 精確度	Repeat 往復誤差	± 0.2% Max.								
	Voltage 電壓誤差	± 0.5% Max.								
	Temperature 溫度誤差	± 2% Max.								
Reset Time 復歸 時間	Time Up 限時時間到	≤ 40ms								
	Time Running 途中	≤ 100ms								
Power Consumption 消費電力		About 2W								
Ambient Temp. 使用周圍溫度		- 10°C ~ + 55°C								
Ambient Humidity 使用周圍濕度		35%~85%RH								



MULTI-RANGE CYCLIC TIMER 多段式數位計時器	Classification 類別	ONE SHOT TIMER ONE SHOT 限時繼電器	
 <p>MH-3Y</p>	<p>Appearance (mm) and Type No 外觀尺寸及型號</p>	 <p>CSE-F□</p>	 <p>CSE-B□</p>
Bury (Flush) 埋入	Mounting 安裝方式	Front (Surface) 露出	Bury (Flush) 埋入
P3G08 OR US08 Pls specify	Socket Type 使用底座	PF085A	P3G08 OR US08 With B-68(Y-40)Adaptor
SEC.: 9.99/99.9/999 MIN.: 9.59/99.9/999	Full Time Range 時間範圍	SEC.: 1, 3, 6, 10, 30, 60, 180 MIN.: 6, 10, 30, 60	
None 無	Rated Voltage 定格電壓 AC:80%~110% DC:85%~110%	AC(V)50/60Hz: 12, 24, 110, 120, 220, 240 DC(V): 12, 24	
AC(V)50/60Hz: 12, 24, 110, 120, 220, 240, 346, 380, 415, 440 DC(V): 12, 24	Output Contact 輸出接點	Delay 1c	
None 無	Timing Trigger Mode 計時觸發方式	POSITIVE (正緣)	NEGATIVE (負緣)
$\geq 20 \times 10^6$ Times (No load, 1,800 operations per hour) 2,000萬次以上 (無負載, 動作頻率1,800回/小時)	Life 壽命	$\geq 20 \times 10^6$ Times (No load, 1,800 operations per hour) 2,000萬次以上 (無負載, 動作頻率1,800回/小時)	
$\geq 100 \times 10^3$ Times (AC250V,5A P.F.=1; 1,800 operations per hour) 10萬次以上 (AC250V,5A,P.F.=1;動作頻率1,800回/小時)	Mechanical 機械	$\geq 100 \times 10^3$ Times (AC250V,5A P.F.=1; 1,800 operations per hour) 10萬次以上 (AC250V, 5A P.F.=1;動作頻率1,800回/小時)	
$\pm 0.2\%$ Max.	A C C U R A C Y 精 確 度	Repeat 往復誤差	$\pm 0.3\%$ Max.
$\pm 0.5\%$ Max.		Setting 設定誤差	$\pm 5\%$ Max.
$\pm 2\%$ Max.		Voltage 電壓誤差	$\pm 0.5\%$ Max.
$\leq 40$ ms		Temperature 溫度誤差	$\pm 2\%$ Max.
$\leq 100$ ms	Reset Time 復歸時間	$\leq 0.1$ S	
About 2W	Power Consumption 消費電力	About 2W	
$-10^{\circ}\text{C} \sim +55^{\circ}\text{C}$	Ambient Temp. 使用周圍溫度	$-10^{\circ}\text{C} \sim +55^{\circ}\text{C}$	
35%~85%RH	Ambient Humidity 使用周圍濕度	35%~85%RH	

Classification 類別	MULTI-RANGE MULTI-FUNCTION DIGITAL COUNTER 多功能電子式計數器		
Appearance (mm) and Type No. 外觀尺寸及型號			
Mounting 安裝方式	Fornt (Surface) 露出	Bury (Flush) 埋入	
Socket Type 使用底座	8PFA	P3G08 OR US08 Pls specify	
Rated Voltage 定格電壓 AC:80%~110% DC:85%~110%	AC(V)50/60Hz: 12, 24, 110, 120, 220, 240, 346, 380, 415, 440 DC(V): 12, 24		
Output Contact 輸出接點	IC		
Digit No. and Type 位數及型號	1	2	3
	MT-F1 MT-B1	MT-F2 MT-B2	MT-F3 MT-B3
Power Supply for Sensor 供應外部電源	DC24V 30mA, RIPPLE 10% (電源為12VAC/DC時 DC12V)		
Display 顯示幕	7-Segment Red LED, Height 0.3" 七節數字LED紅色字幕, 高0.3寸		
Input Response Time 計數有效等待時間	Counting input is effective 0.2S after power on. 電源投入0.2秒後計數訊號輸入才開始有效		
Counting Speed 計數速度	Contact/Solid state Input, Max. 30 cps 接點(無接點)輸入, 最快30次/秒		
Automatic Reset 自動復歸	0.2S/0.5S/1.0S		
Reset by Power Off 電源復歸	RESET TIME $\leq$ 0.1 SEC.		
Life 壽命	Mechanical 機械	$\geq 20 \times 10^6$ Times (No load, 1,800 operations per hour) 2,000萬次以上(無負載, 動作頻率1,800回/小時)	
	Electrical 電氣	$\geq 100 \times 10^3$ Times (AC250V, 5A, P.F.=1; 1,800 operations per hour) 10萬次以上(AC250V, 5A P.F.=1; 動作頻率1,800回/小時)	
Power Consumption 消費電力	About 2W		
Ambient Temp. 使用周圍溫度	-10°C ~ +55°C		
Ambient Humidity 使用周圍濕度	35%~85%RH		

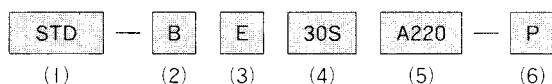
Classification 類別	CONTROLLER UNIT 電源控制器	
Appearance (mm) and Type No. 外觀尺寸及型號		
Mounting 安裝方式	Front (Surface) 露出	
Socket Type 使用底座	085A	
Rated Voltage 定格電壓 AC:80%~110% DC:85%~110%	AC(V)50/60Hz: 110, 120, 220, 240	
Output Contact 輸出接點	IC	
Type 型號	for PNP input	for NPN input
	PUN-FP	PUN-FN
Power Supply for Sensor 供應外部電源	DC12V 15mA, RIPPLE 10%	
Input Signal 輸入訊號	DC2V~12V	
Load Regulation 穩壓	$\leq 2\%$	
Input Impedance 入力阻抗	1K $\Omega$	
Life 壽命	Mechanical 機械	$\geq 20 \times 10^6$ Times (No load, 1,800 operations per hour) 2,000萬次以上(無負載, 動作頻率1,800回/小時)
	Electrical 電氣	$\geq 100 \times 10^3$ Times (AC250V, 5A, P.F.=1; 1,800 operations per hour) 10萬次以上(AC250V, 5A P.F.=1; 動作頻率1,800回/小時)
Power Consumption 消費電力	About 2W	
Ambient Temp. 使用周圍溫度	-10°C ~ +55°C	
Ambient Humidity 使用周圍濕度	35%~85%RH	

Classification 類別	PHASE CONTROLLER 欠逆相保護繼電器	
Appearance (mm) and Type No. 外觀尺寸		
Mounting 安裝方式	露出	
Socket Type 使用底座	085A	
Rated Voltage 定格電壓 AC:80%~110%	AC (V) 50/60Hz : 220 · 380 · 415 · 440	
Output Contact 輸出接點容量	250VAC 5A 電阻性負載 (P.F.=1)	
Power Style 電源形式	三相三線式	
Power Consumption 消費電力	約2W	
Ambient Temp 使用周圍溫度	-10~55°C	
Ambient Humidity 使用周圍濕度	35%~85%RH	
Accuracy 精準度	Voltage 電壓影響	±0.5%
	Temperature 溫度影響	±2%
Insulation Resistance 絕緣電阻	100MΩ以上 (以DC500V絕緣電阻計測量)	
Pressure resistance 耐壓	AC 2000V 50/60Hz 1分鐘 (充電金屬部與非充電金屬部間) AC 2000V 50/60Hz 1分鐘 (輸出接點與控制回路間) AC 700V 50/60Hz 1分鐘 (非連續接點間)	
Vibration 震動	耐久	10~55Hz 複振幅0.75mm
	誤動作	10~55Hz 複振幅0.75mm
Shock Load 衝擊	耐久	約 50G
	誤動作	約 10G
Mounting Type 安裝方向	無限制	
Life 壽命	機械: 10,000,000 次 電氣: 100,000次 (額定容量內)	

## HOW TO ORDER OUR PRODUCTS

### ■ POWER ON DELAY TIMER

TYPE STD, CSA, CSB, CST, CSG, CSF



(1)TYPE STD, CSA, CSB, CST, CSG, CSF

(2)MOUNTING F: SURFACE B: FLUSH

(3)OUTPUT CONTACT C: Delay 1c

D: Delay 2c

E: Delay 1c, Instant 1c

(4)TIME RANGE 01S: 1 SEC.

30S: 30 SEC.

06M: 6 MIN.

03H: 3 HR.

(5)RATED VOLTAGE A024: AC 24V 50/60Hz

A110: AC110V 50/60Hz

A220: AC220V 50/60Hz

D024: DC 24V

(6)FLUSH MOUNTING SOCKET P: P3G08

U: US08

(5)RATED VOLTAGE A024: AC 24V 50/60Hz

A110: AC110V 50/60Hz

A220: AC220V 50/60Hz

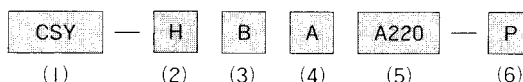
D024: DC 24V

(6)FLUSH MOUNTING SOCKET P: P3G08

U: US08

### ■ DEFROST TIMER

TYPE CAY, CKY, CSY



(1)TYPE CAY, CKY, CSY

(2)CONTACT RATING Blank: 5A H: 15A

(3)MOUNTING F: SURFACE B: FLUSH

(4)DEFROST TERMINATION CONTACT (ONLY FOR CSY)

A: A CONTACT

B: B CONTACT (STANDARD)

(5)RATED VOLTAGE A024: AC 24V 50/60Hz

A110: AC110V 50/60Hz

A220: AC220V 50/60Hz

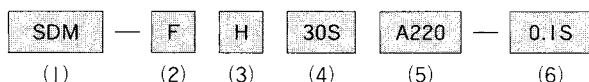
D024: DC 24V

(6)FLUSH MOUNTING SOCKET P: P3G08

U: US08

### ■ STAR-DELTA TIMER

TYPE SDM, SDS



(1)TYPE SDM, SDS

(2)MOUNTING F: SURFACE

(3)INSTANT CONTACT H (HAVE)

(4)TIME RANGE 30S: 30 SEC.

60S: 60 SEC.

(5)RATED VOLTAGE A110: AC110V 50/60Hz

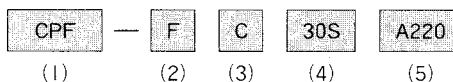
A220: AC220V 50/60Hz

(6)TRANSFER TIME 0.1S (STANDARD),

0.1S~0.7S PLS SPECIFY

### ■ POWER OFF DELAY TIMER

TYPE CPF



(1)TYPE CPF

(2)MOUNTING F: SURFACE

(3)OUTPUT CONTACT C: Delay 1c (RESET)

D: Delay 2c

E: Delay 1c, Instant 1c

(4)TIME RANGE 01S: 1 SEC.

30S: 30 SEC.

05M: 5 MIN.

10M: 10 MIN.

(5)RATED VOLTAGE A024: AC 24V 50/60Hz

A110: AC 110V 50/60Hz

A220: AC 220V 50/60Hz

D024: DC 24V

### ■ TWIN TIMER AND FLICKER TIMER

TYPE CTW, CSK, CKR, CKP



(1)TYPE CTW, CSK, CKR, CKP

(2)MOUNTING F: SURFACE B: FLUSH

(3)OUTPUT CONTACT C: Delay 1c

D: Delay 2c

E: Delay 1c, Instant 1c

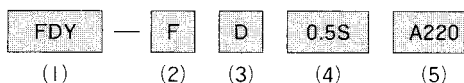
(4)TIME RANGE CTW: 06S x 06S

06M x 60S

06S x 12H

CSK, CKR, CKP: 03S

TYPE FDY



(1)TYPE FDY

(2)MOUNTING F: SURFACE

(3)OUTPUT CONTACT D: Delay 2c

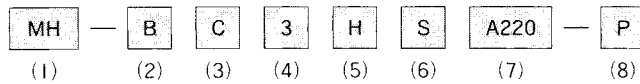
(4)TIME RANGE 0.5S

(5)RATED VOLTAGE A220: AC220V 50/60Hz

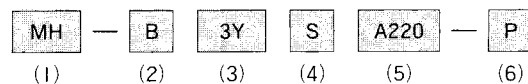
## HOW TO ORDER OUR PRODUCTS

### ■ MULTI-RANGE DIGITAL TIMER

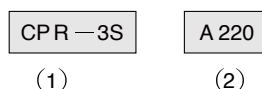
#### TYPE MH



- (1)TYPE MH
- (2)MOUNTING F: SURFACE B: FLUSH
- (3)OUTPUT CONTACT C: Delay 1c(With External Gate, Reset)  
D: Delay 2c  
E: Delay 1c, Instant 1c
- (4)DIGIT 2: 2 DIGIT  
3: 3 DIGIT
- (5)DISPLAY H: SEVEN SEGMENT  
N: LED
- (6)TIME UNIT S: SEC.  
M: MIN.  
H: HR.
- (7)RATED VOLTAGE A024: AC 24V 50/60Hz  
A110: AC 110V 50/60Hz  
A220: AC 220V 50/60Hz  
D024: DC 24V
- (8)FLUSH MOUNTING SOCKET P: P3G08  
U: US08



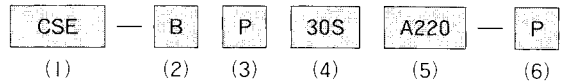
- (1)TYPE MH
- (2)MOUNTING B: FLUSH
- (3)DIGIT / FUNCTION 3Y
- (4)TIME UNIT S: SEC.  
M: MIN.
- (5)RATED VOLTAGE A024: AC 24V 50/60Hz  
A110: AC 110V 50/60Hz  
A220: AC 220V 50/60Hz  
D024: DC 24V
- (6)FLUSH MOUNTING SOCKET P: P3G08  
U: US08



- (1) TYPE CPR-3S
  - (2) RATED VOLTAGE (50/60Hz)
- |   |                   |
|---|-------------------|
| A | 220 : A C176~264V |
|   | 380 : A C304~418V |
|   | 415 : A C332~457V |
|   | 440 : A C352~484V |

### ■ ONE SHOT TIMER

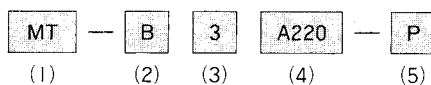
#### TYPE CSE



- (1)TYPE CSE
- (2)MOUNTING F: SURFACE B: FLUSH
- (3)TIMING TRIGGER MODE P: POSITIVE  
N: NEGATIVE
- (4)TIME RANGE 01S: 1 SEC.  
30S: 30 SEC.  
06M: 6 MIN.  
60M: 60 MIN.
- (5)RATED VOLTAGE A024: AC 24V 50/60Hz  
A110: AC 110V 50/60Hz  
A220: AC 220V 50/60Hz  
D024: DC 24V
- (6)FLUSH MOUNTING SOCKET P: P3G08  
U: US08

### ■ MULTI-RANGE MULTI-FUNCTION DIGITAL COUNTER

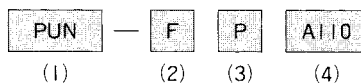
#### TYPE MT



- (1)TYPE MT
- (2)MOUNTING F: SURFACE B: FLUSH
- (3)DIGIT 1: 1 DIGIT  
2: 2 DIGIT  
3: 3 DIGIT
- (4)RATED VOLTAGE A024: AC 24V 50/60Hz  
A110: AC 110V 50/60Hz  
A220: AC 220V 50/60Hz  
D024: DC 24V
- (5)FLUSH MOUNTING SOCKET P: P3G08  
U: US08

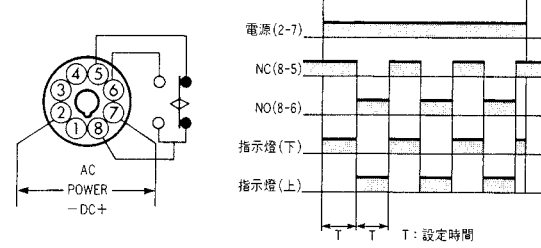
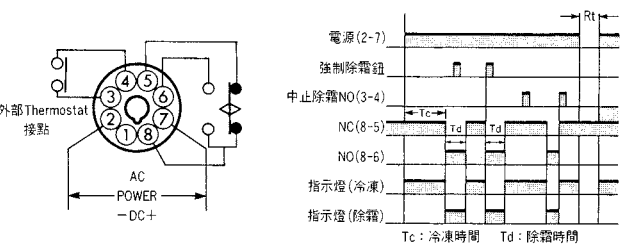
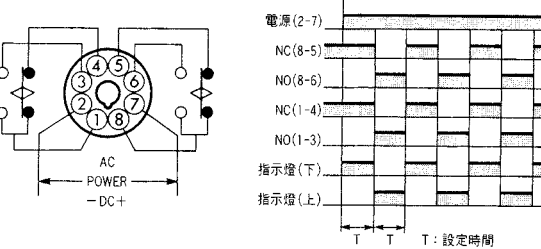
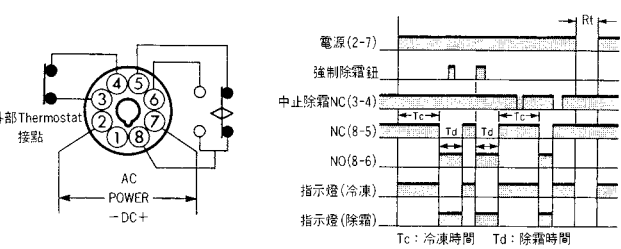
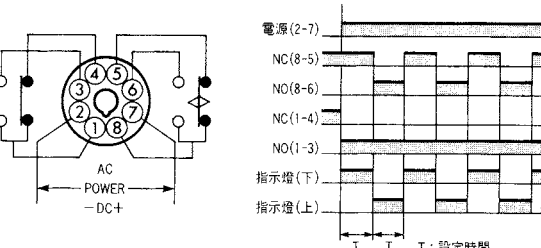
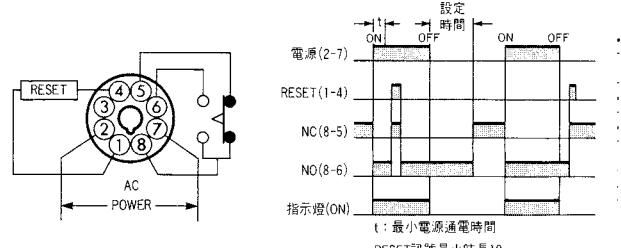
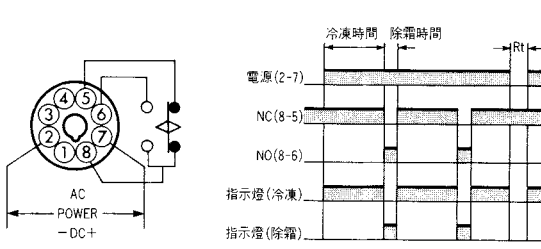
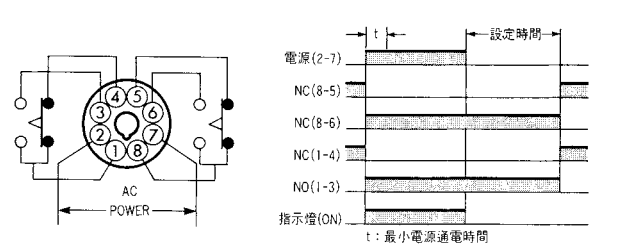
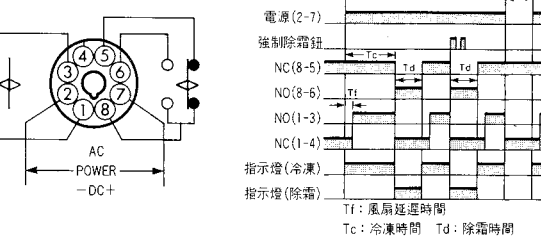
### ■ TRANSDUCER-CONTROLLER UNIT

#### TYPE PUN



- (1)TYPE PUN
- (2)MOUNTING F: SURFACE
- (3)APPLICATION P: FOR PNP INPUT  
N: FOR NPN INPUT
- (4)RATED VOLTAGE A110: AC110V 50/60Hz  
A220: AC220V 50/60Hz

<p><b>STD-F(B)C, CSA-F(B)C, CSF-FC</b></p>	<p><b>SDM-FH</b></p>
<p><b>STD-F(B)D, CSA-F(B)D, CSF-FD</b></p>	<p><b>SDS-FH</b></p>
<p><b>STD-F(B)E, CSA-F(B)E, CSF-FE</b></p>	<p><b>CTW-F(B)C</b></p>
<p><b>CPR-3S</b></p>	<p><b>CTW-F(B)D</b></p>
<p><b>CSB-FC, CSG-FC</b></p>	<p><b>CTW-F(B)E</b></p>

<p><b>CSK-F(B)C, CKR-FC</b></p>  <p>電源(2-7) NC(8-5) NO(8-6) 指示燈(下) 指示燈(上) T: 設定時間</p>	<p><b>CSY-F(B)A</b></p>  <p>外部Thermostat 接點 AC POWER -DC+ 電源(2-7) 強制除霜鈕 中止除霜NO(3-4) NC(8-5) NO(8-6) 指示燈(除霜) Tc: 冷凍時間 Td: 除霜時間</p>
<p><b>CSK-F(B)D</b></p>  <p>電源(2-7) NC(8-5) NO(8-6) NC(1-4) NO(1-3) 指示燈(下) 指示燈(上) T: 設定時間</p>	<p><b>CSY-F(B)B</b></p>  <p>外部Thermostat 接點 AC POWER -DC+ 電源(2-7) 強制除霜鈕 中止除霜NC(3-4) NC(8-5) NO(8-6) 指示燈(冷凍) 指示燈(除霜) Tc: 冷凍時間 Td: 除霜時間</p>
<p><b>CSK-F(B)E</b></p>  <p>電源(2-7) NC(8-5) NO(8-6) NC(1-4) NO(1-3) 指示燈(下) 指示燈(上) T: 設定時間</p>	<p><b>CPF-FC</b></p>  <p>RESET AC POWER 電源(2-7) RESET(1-4) NC(8-5) NO(8-6) 指示燈(ON) t: 最小電源通電時間 RESET訊號最小時長10ms</p>
<p><b>CAY-F(B)</b></p>  <p>電源(2-7) NC(8-5) NO(8-6) 指示燈(冷凍) 指示燈(除霜) Tc: 冷凍時間 Td: 除霜時間</p>	<p><b>CPF-FD, FDY-FD</b></p>  <p>電源(2-7) NC(8-5) NC(8-6) NC(1-4) NO(1-3) 指示燈(ON) t: 最小電源通電時間</p>
<p><b>CKY-F(B)</b></p>  <p>電源(2-7) 強制除霜鈕 NC(8-5) NO(8-6) NO(1-3) NC(1-4) 指示燈(冷凍) 指示燈(除霜) Tt: 風扇延遲時間 Tc: 冷凍時間 Td: 除霜時間</p>	

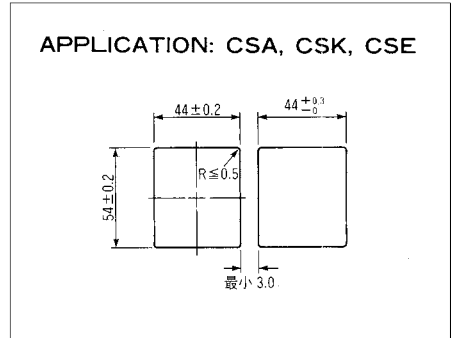
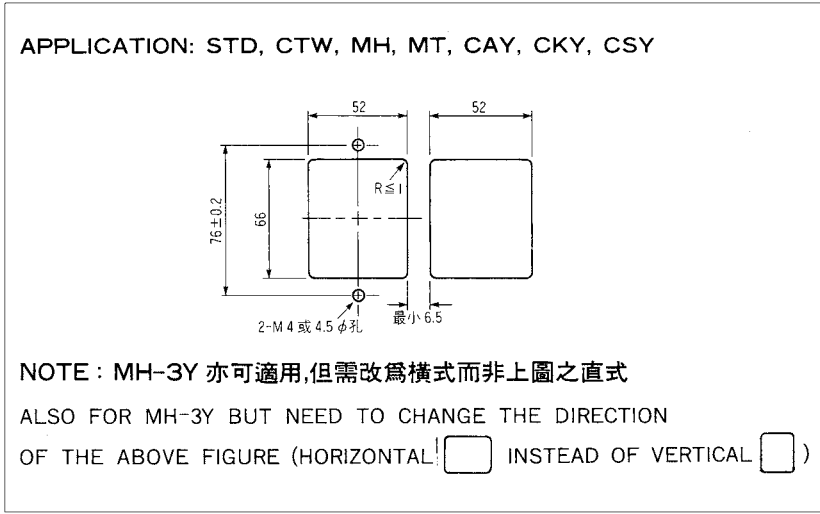
<p><b>MH-F(B)C</b></p> <p>電源(2-7) RESET(1-3) GATE(1-4) NC(8-5) NO(8-6) 指示燈(ON) 指示燈(UP) 數字顯示</p> <p>顯示設定時間(n) RESET時，七節顯示器上不顯示數字 RESET訊號最小時長10ms</p>	<p><b>CSE-F(B)N</b></p> <p>電源(2-7) 訊號輸入(1-3) NC(8-5) NO(8-6) 指示燈(ON) 指示燈(UP)</p> <p>T: 設定時間 最小訊號時長10ms</p>
<p><b>MH-F(B)D</b></p> <p>電源(2-7) NC(8-5) NO(8-6) NC(1-4) NO(1-3) 指示燈(ON) 指示燈(UP) 數字顯示</p> <p>顯示設定時間(n)</p>	<p><b>MT</b></p> <p>電源(2-7) 計數訊號(1-3) 數字顯示 NC(8-5) NO(8-6)</p> <p>0.2S 後輸入有效 0 1 2 3(設定值)</p>
<p><b>MH-F(B)E</b></p> <p>電源(2-7) NC(8-5) NO(8-6) NC(1-4) NO(1-3) 指示燈(ON) 指示燈(UP) 數字顯示</p> <p>顯示設定時間(n)</p>	<p><b>MT-F(B)N</b></p> <p>電源(2-7) 計數訊號(1-3) 數字顯示 NC(8-5) NO(8-6)</p> <p>0.2S 後輸入有效 0 1 2 3(設定值)</p> <p>可設定為0.2秒 0.5秒 1秒 3種</p>
<p><b>MH-B 3Y</b></p> <p>電源(2-7) RESET(1-3) GATE(1-4) 數字顯示</p> <p>顯示設定時間(n) <math>t_1 + t_2 = 0.1\text{ S}</math></p>	<p><b>PUN</b></p> <p>電源(7-8) Input(4-6) NC(1-3) NO(1-2) 電源指示燈</p>
<p><b>CSE-F(B)P</b></p> <p>電源(2-7) 訊號輸入(1-3) GATE輸入(1-4) NC(8-5) NO(8-6) 指示燈(ON) 指示燈(UP)</p> <p>T: 設定時間 最小訊號時長10ms <math>T_1 + T_2 = T</math></p>	<p><b>PUN-FP</b></p> <p>電源(7-8) Input(4-6) NC(1-3) NO(1-2) 電源指示燈</p> <p><b>PUN-FN</b></p>



■ 底座種類與安裝方式(SOCKETS AND INSTALLATION)

安裝方式 MOUNTING	型號·外觀·尺寸 TYPE·APPEARANCE (mm)	端子配置·內部接續 CONNECTION	安裝尺寸 INSTALLATION(mm)
露出(F) SURFACE	<b>PFO83A</b> 	<p>TOP VIEW</p>	2-M4 or $\phi 4.5$ Holes <p>Note: or by Din Rail</p>
露出(F) SURFACE	<b>PFO85A</b> 	<p>TOP VIEW</p>	2-M4 or $\phi 4.5$ Holes <p>Note: or by Din Rail</p>
露出(F) SURFACE	<b>8PFA</b> 	<p>TOP VIEW</p>	2-M4 or $\phi 4.5$ Holes <p>Note: or by Din Rail</p>
露出(F) SURFACE	<b>P2CF-11</b> 	<p>TOP VIEW</p>	2- $\phi 4.5$ Holes <p>Note: or by Din Rail</p>
露出(F) SURFACE	<b>PYF14N</b> 	<p>TOP VIEW</p>	2-M4 or $\phi 4.5$ Holes <p>Note: or by Din Rail</p>
埋入(B) FLUSH	<b>US08</b> 	<p>TOP VIEW</p>	
埋入(B) FLUSH	<b>P3G08</b> 	<p>BOTTOM VIEW</p>	
埋入(B) FLUSH	<b>P3G11</b> 	<p>BOTTOM VIEW</p>	
埋入用框 ADAPTER FOR FLUSH MOUNTING	<b>B-68</b> 		

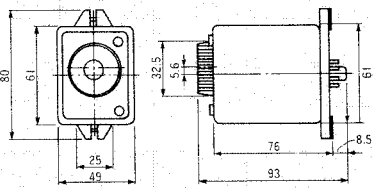
■埋入型安裝尺寸 Flush Mounting Dimensions(mm)



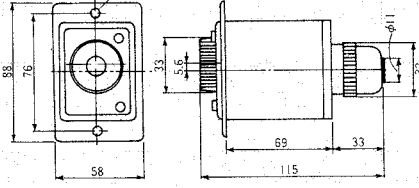
■共通尺寸圖(mm): 各類 TIMER, COUNTER 外觀請參考封面

General Dimensions (mm): Pls refer to cover for Appearances of various Timer, Counter

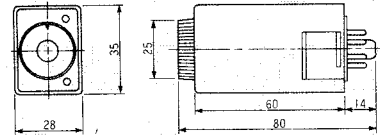
STD-F, CPF-F, SDM-F, SDS-F



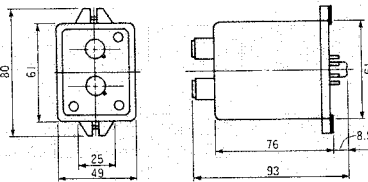
STD-B  $\phi 4.3 \times 2$  Holes



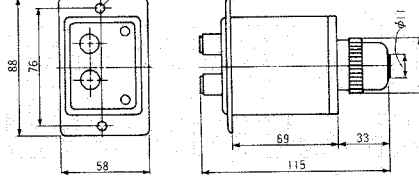
CSB-F, CKR-F



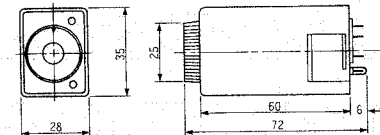
CTW-F, CAY-F



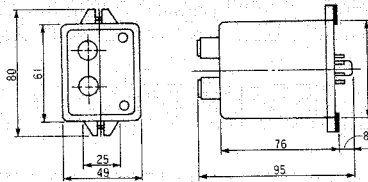
CTW-B, CAY-B  $\phi 4.3 \times 2$  Holes



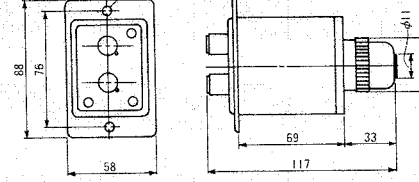
CST-F, CKP-F



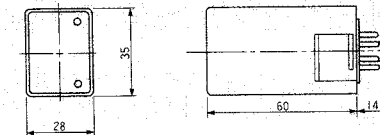
CSY-F



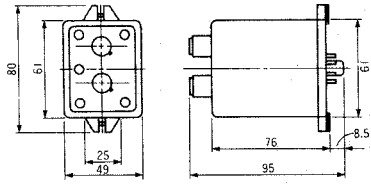
CSY-B  $\phi 4.3 \times 2$  Holes



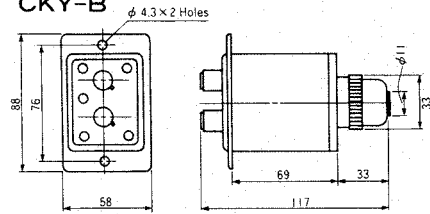
CSG-F, (無旋鈕 without knob)



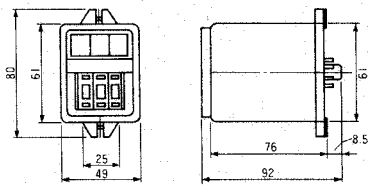
CKY-F



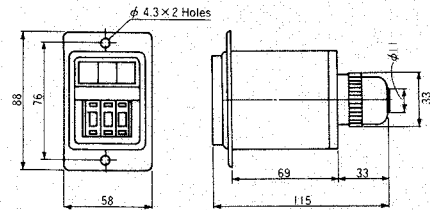
CKY-B



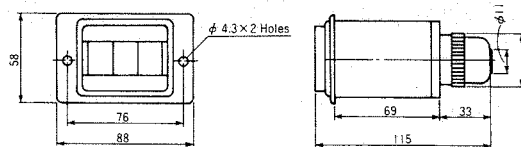
MT-F, MH-F



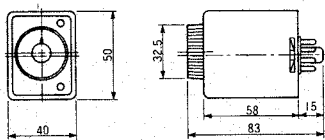
MT-B, MH-B



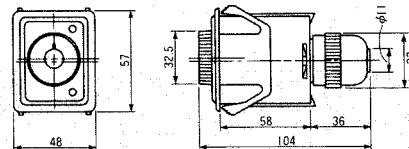
MH-3Y



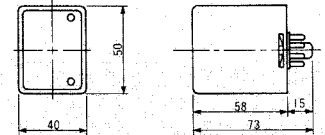
CSA-F, CSK-F, CSE-F



CSA-B, CSK-B, CSE-B



CSF-F, PUN, FDY  
 (無旋鈕 without knob)





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