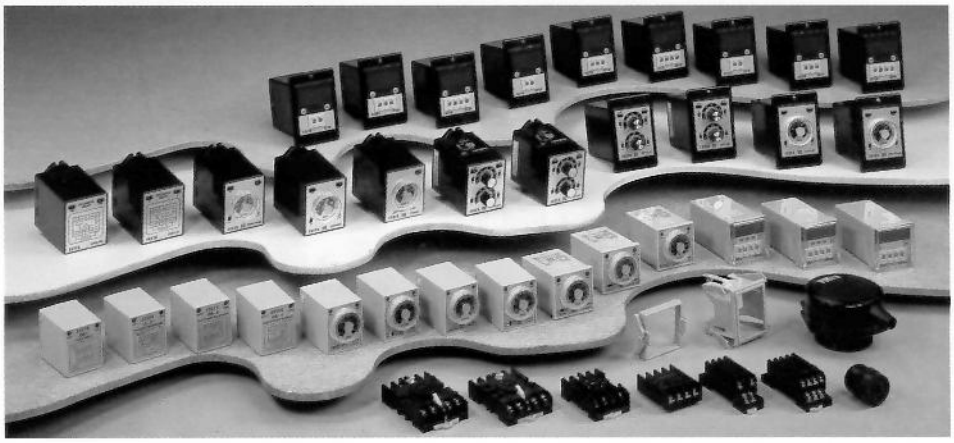
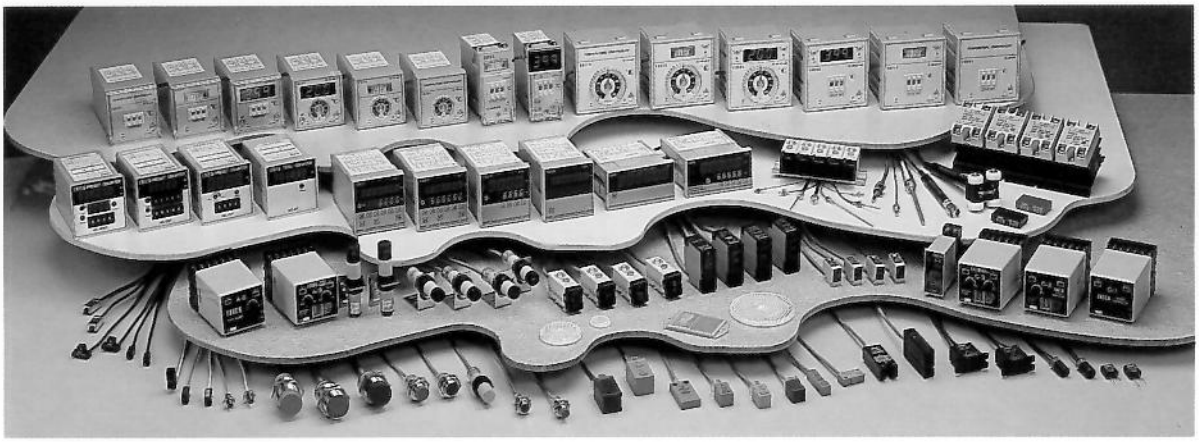
FOTEK

COUNTER & METER

陽明電機股份有限公司
自動化控制器材專業製造廠

FOTEK CONTROLS





陽明電機股份有限公司
FOTEK CONTROLS CO.,LTD.

成立1985年　Established 1985

主要產品　Main product

●計時器	● Timer
●計數器	● Counter
●轉速表	● Tachometer
●線速表	● Line Speed Meter
●電壓表	● Voltage Meter
●電流表	● Current Meter
●光電開關	● Photo Sensor
●近接開關	● Proximity Sensor
●磁簧開關	● Reed Sensor
●固態繼電器	● Solid State Relay
●溫度控制器	● Temperature Controller
●液位控制器	● Floatless Level Relay
●欠逆相保護器	● Phase Relay
●馬達起動器	● Y-△Starter

經營理念：

- ●追求永續經營
- ●客戶是永遠的朋友
- ●堅持品質、追求至善
- ●不斷研發生產物超所值的產品
- ●責任、務實、創新、邁向未來

Index

SC-3X DIN 72 X 72
series MULTI - FUNCTION COUNTER

CE

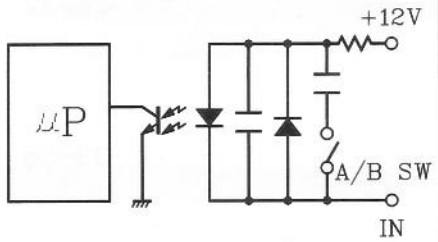
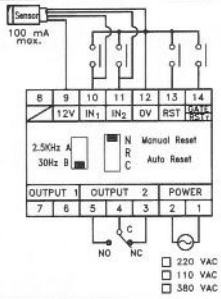
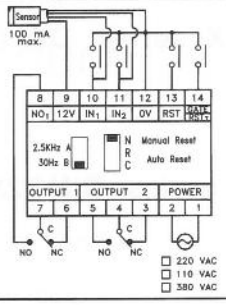
☆ Multi-Function
- — Single or Two Phase Input Selectable.
- — Increasement or Decreasement Counting Selectable.
- — Decimal Point Selectable.
- — Preset Value < SV2 > Settable.
- — Divisor Range : 1~9999
- — Multiplier Range : 0.001~9.999
- — Output Delay Timer Range : 0.01~99.99S

☆ Comply With CE Certificate
- — EMC / EMI / ESD / LVD

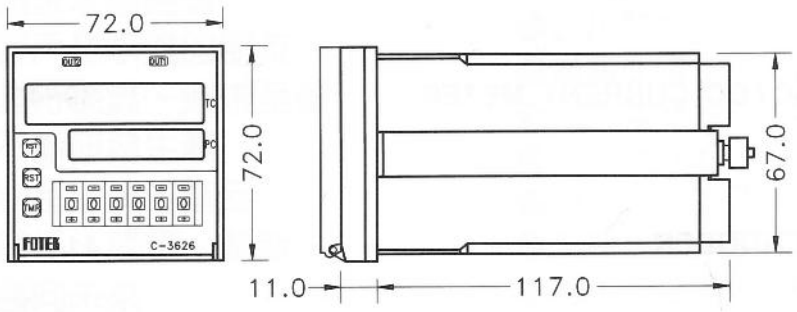
General Specification

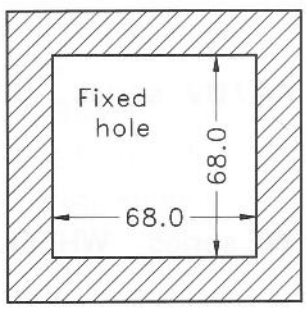
Item	Data
Power Supply	110V or 220VAC ± 20% , 50/60 Hz , 5VA max. Selectable
DC Power Output	60mA / 12VDC Max.
Response Frequence	Speed <A> < 2.5K CPS , Low Speed <B> < 60 CPS
Memory Method	EEPROM
Output Control	N / R / C Selectable
Contact Rated	5A / 250 VAC Max.
Output Delay Timer	Auto Reset Timer Range : 0.01S~99.99S
Divisor	Range : 1~9999
Multiplier	Range : 0.001~9.999
ESD Strength	Over 8 KV
Dielectric Strength	Over 2.5 KV / 1min , Between Power And Each Terminal
Isolation Strength	Over 100MΩ/500VDC , Between Power And Each Terminal
Operating Temp./Hum.	-20°C ~ +80°C ; 35% ~ 85% RH

Interface Circuit & Connection Diagram

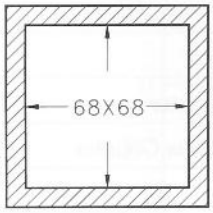
IN or Reset Circuit	Single Preset Counter	Dual Preset Counter
		

Outline Dimension & Fixed Hole

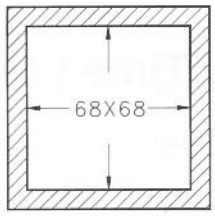




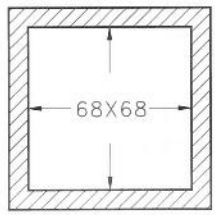
Single Preset Counter / Preset & Total Counter

Model	SC-341	SC-361	SC-3616
Fixed Hole 			
Input Method	Single Phase or Two Phase		Selectable
Counting Method	Increasement or Decreasement Counting		Increasement
Output Method	One Relay		

Dual Preset Counter

Model	SC-342	SC-362	SC-352
Fixed Hole 			
Input Method	Single Phase or Two Phase		Selectable
Counting Method	Increasement or Decreasement Counting		Selectable
Output Method	Two Relay		

Dual Preset & Total Counter / Twin Counter

Model	SC-3526	SC-3626	SC-326
Fixed Hole 			
Input Method	Single Phase or Two Phase		Selectable
Counting Method	Increasement Counting		
Output Method	Two Relay		

☆SC-326 : Counter #1 Output Auto Reset (C) Standard.
Counter #2 is Batch Counter Available.

Inner DIP Switch

Preset Counter

Nr.	Function
1	ON : Two Phase Input
	OFF : Single Phase Input
2	ON : Decreasement Counter
	OFF : Increasement Counter
3	ON : Multiplier
	OFF : Divisor
4	ON : Setting of Divisor or Multiplier
	OFF : Counting Status

Preset & Total Counter.

Nr.	Function
1	ON : Two Phase Input
	OFF : Single Phase Input
2	ON : Total Counter is Batch Counter
	OFF : Total Counter is Synchronous Counter
3	ON : Multiplier
	OFF : Divisor
4	ON : Setting of Divisor or Multiplier
	OFF : Counting Status

A/B Slide Switch

Counting	Hi → Lo , L<2V , 6V<Hi<30V
A	2.5K CPS Max.
B	60 CPS Max.

Selecting of Decimal Point

Push The TMR & RST Key Meamwhile

To Select The Decimal Point

Setting of Delay Time (t)

Push The TMR Key To Set Timer.

Push The RST Key To Increase The Delay Time

Push The RST T Key To Decrease The Delay Time

Selecting of Divisor or Multiplier

Divisor : The Inner DIP Switch #3 Set At "OFF" Position < Range : 1~9999 >

Multiplier : The Inner DIP Switch #3 Set At "ON" Position < Range : 0.001~9.999 >

Set The Inner DIP Switch #4 To "ON" Position,

Push The RST Key To Increase The Value of Divisor or Multiplier.

Push The RST T Key To Decrease The Value of Divisor or Multiplier.

After Finishing Setting, Please Set The Inner DIP Switch #4 To "OFF" Position.

Setting of The Preset Value <SV_1>

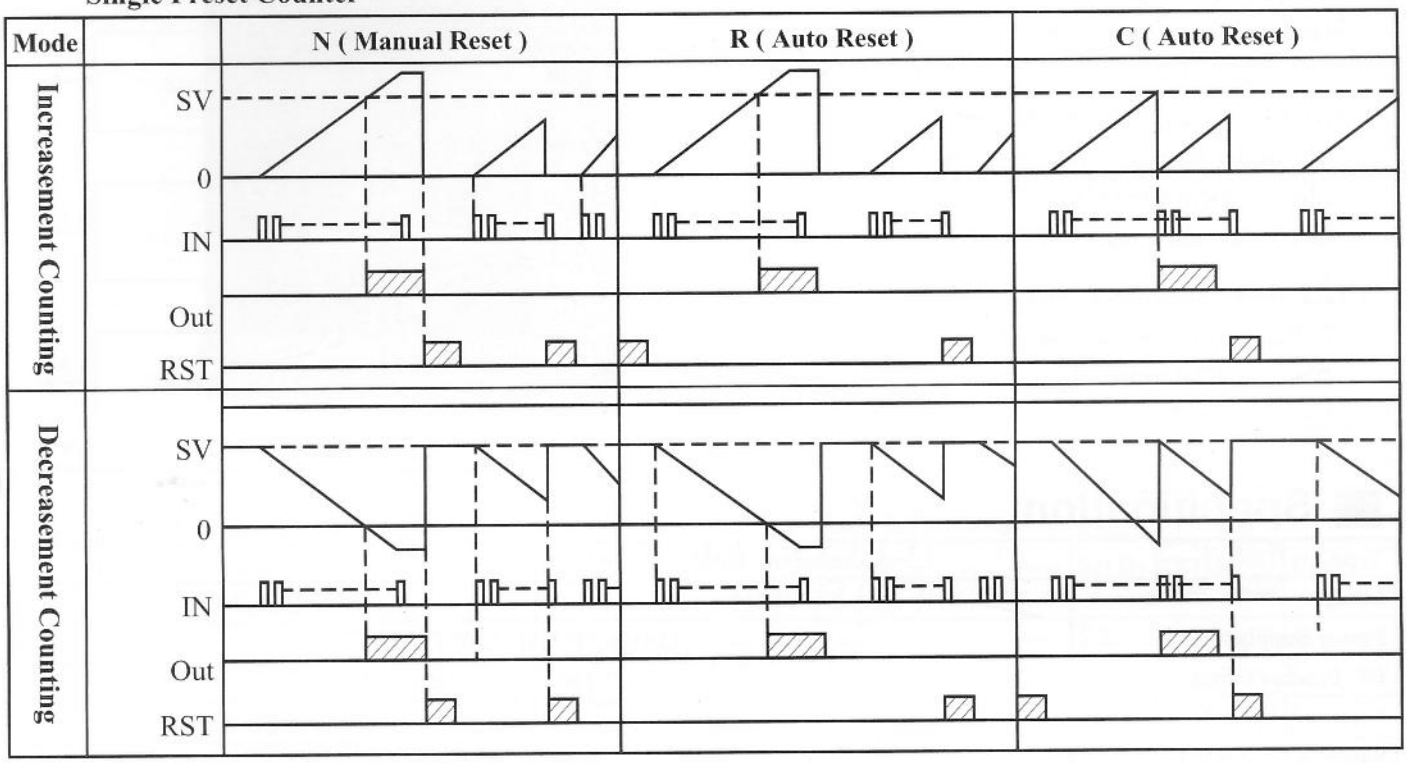
Push The TMR Key To Set The SV_1.

Push The RST Key To Increase The Preset Value of SV_1

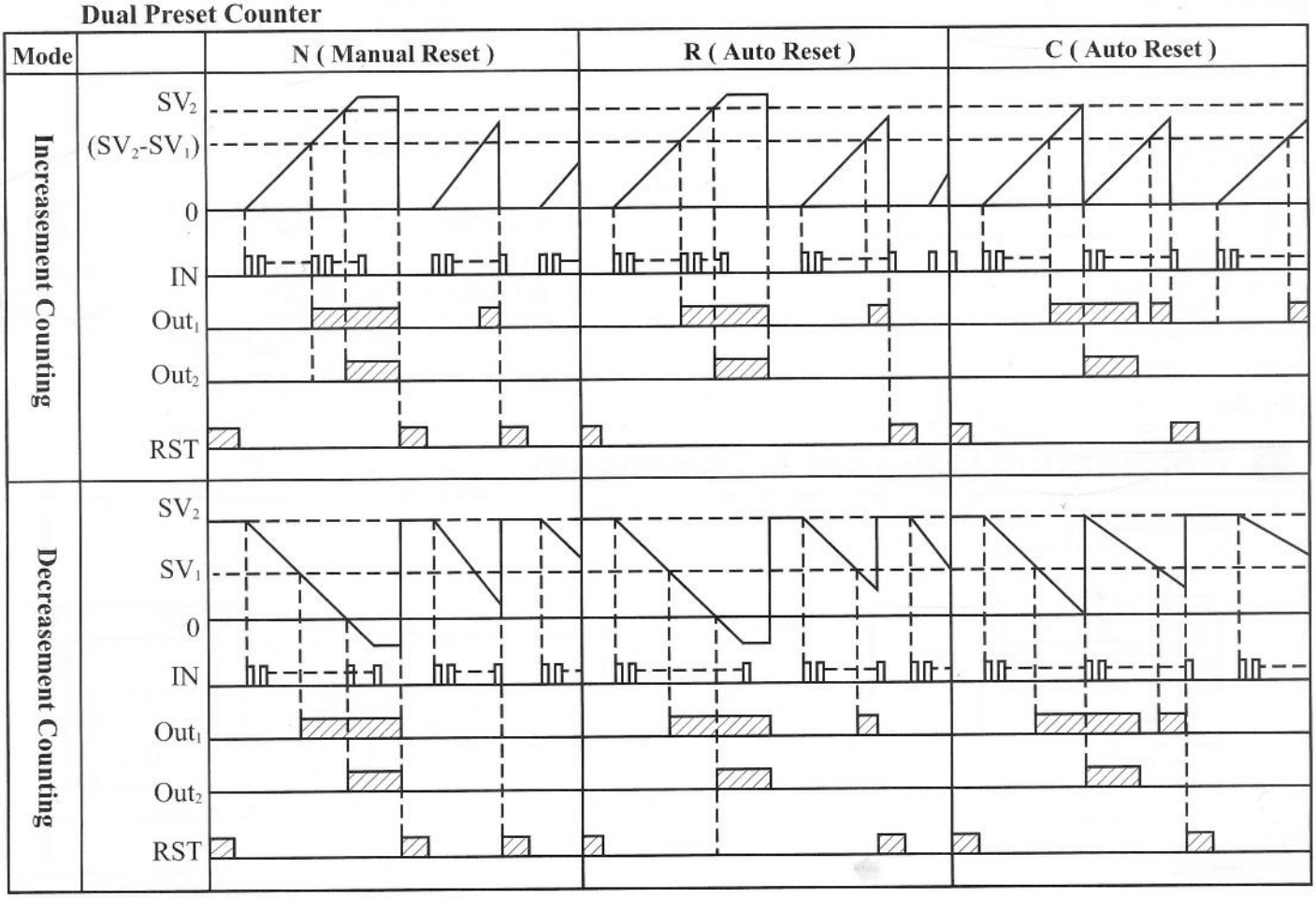
Push The RST T Key To Decrease The Preset Value of SV_1

Output Timing Chart < N / R / C Control >

Single Preset Counter



Dual Preset Counter



Remarks : SV or SV_2 Are Main Preset Value.

SC-362M series

DIN 72 x72 COUNTER & METER

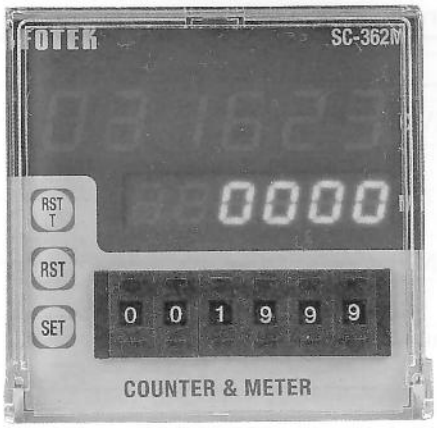
CE

☆**Counter**

—Single phase Input .
—Decimal Point Selectable .
—Dual Preset Counter .
—Divisor Range : 1 ~ 9999
—Multiplier Range : 0.001 ~9.999
—Increasement Counter or
Decreasement Counter Selectable .

☆**RPM or Line Speed Meter**

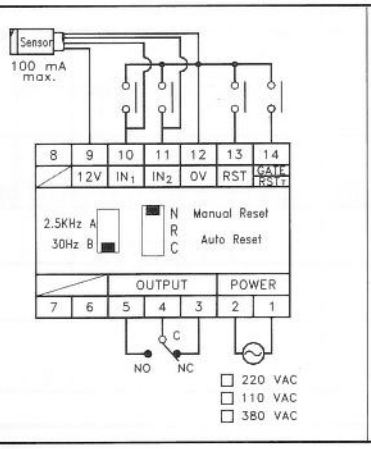
—Pulses per Revolution Settable
—Sampling Time Settable .
—Decimal Point Auto Shift .

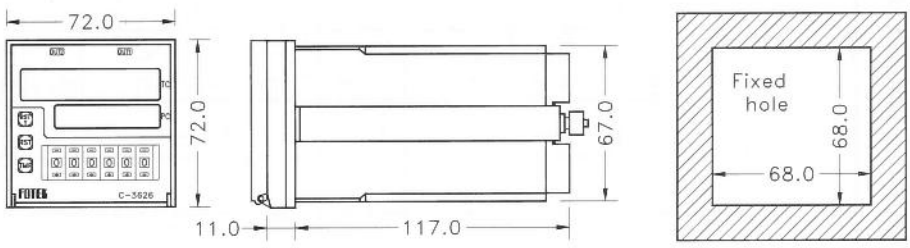


Specification

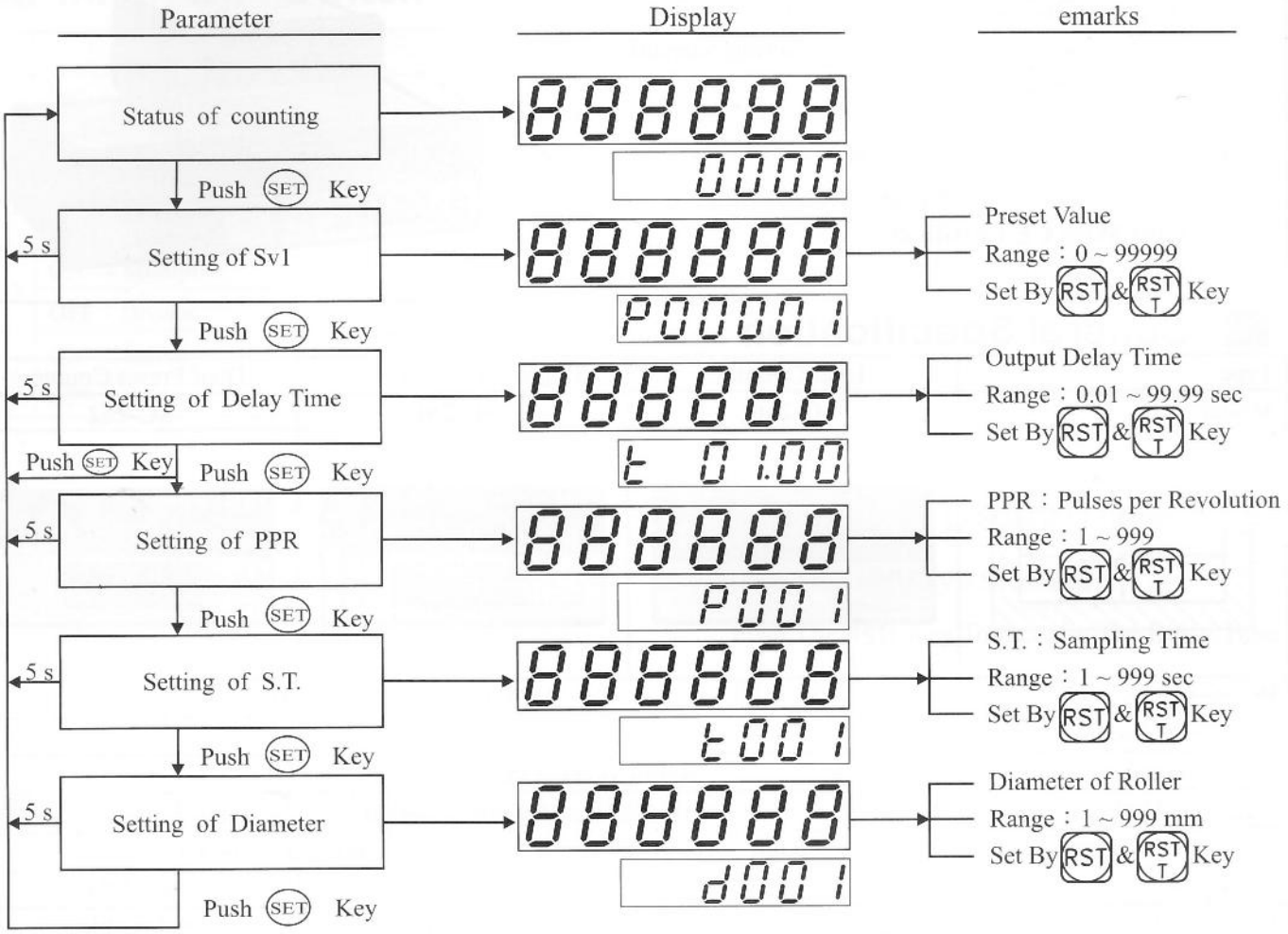
Type	Counter & RPM	Counter & Line Speed Meter
Model	SC-362M	SC-362Ma
Power Supply	110V / 220VAC ±20% , 50Hz	
DC Power Output	12VDC / 60mA Max.	
Unit	Revolutions per Minute	Meter per Minute
Sampling Time(S.T.)	1 ~ 99 Sec Settable	
Pules Per Revolution(PPR)	1 ~ 999 PPR Settable	
Decimal Point	Auto Shift	
Output Control	N / R / C Selectable , Range of Timer (t) : 0.01S ~99.99S	
Response Frequence	High Speed < 2.5K Hz ; Low Speed < 30Hz	
Divisor / Multiplier	Divisor Range : 1 ~ 9999 / Multiplier Range : 0.001 ~ 9.999	
Memory Method	EEP ROM	
ESD Resistance	Over 8KV	
Dielectric Strength	Over 2.5 KV / 1 min , Between Power And Each Terminal	
Isolation Strength	Over 500MΩ/500VDC , Between Power And Each Terminal	
Operating Temp./Hum.	-20°C ~ +80°C ; 35 ~ 85% RH	
Weight		

Connection Diagram & Dimension



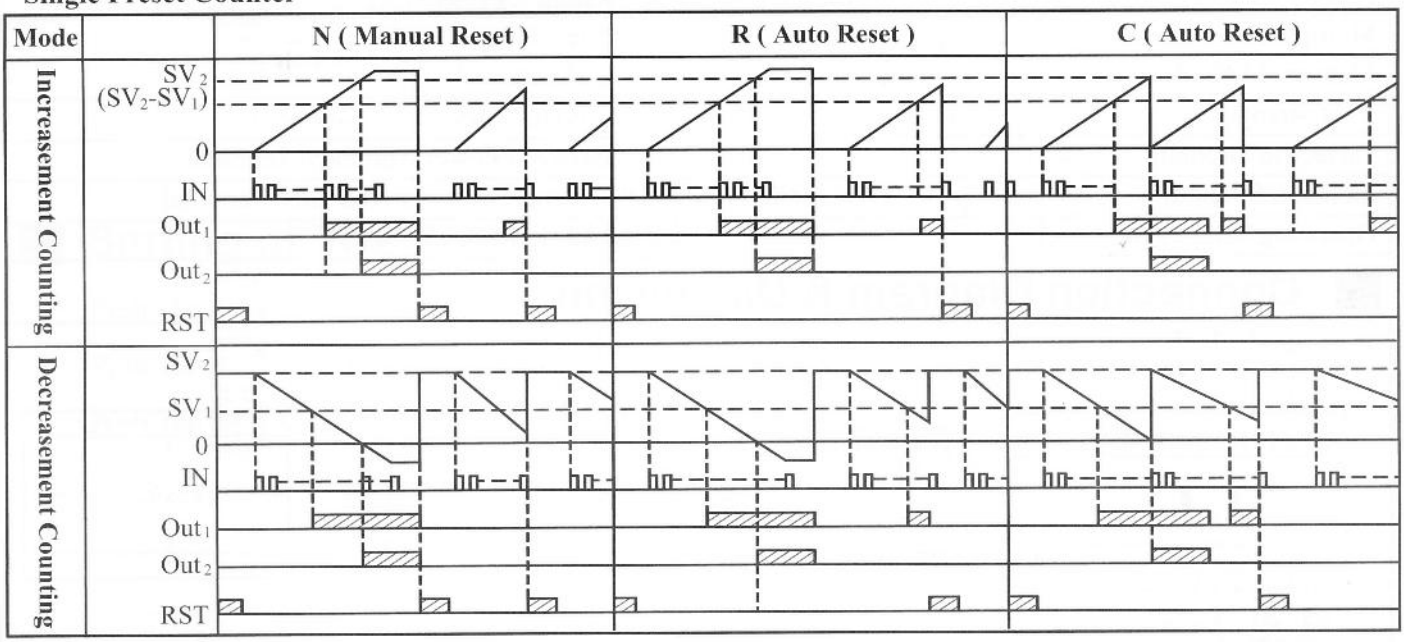


Setting of Parameter



N / R / C Output Control

Single Preset Counter



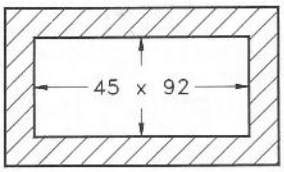
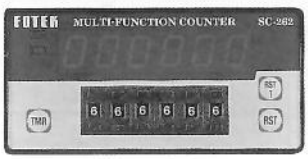
Remarks : SV_2 is Main Preset Value.

SC-26X series DIN 96x48 MULTI - FUNCTION COUNTER

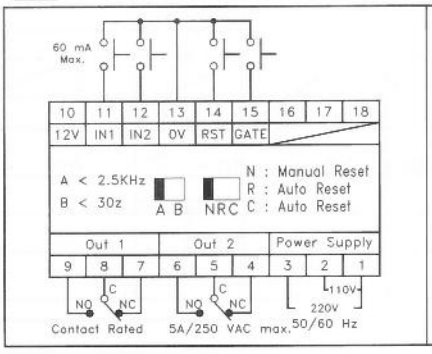
☆**Multi-Function**
- — Single or Two Phase Input Selectable.
- — Increasement or Decreasement Counting Selectable.
- — Decimal Point Selectable.
- — Divisor Range：1~9999
- —Multiplier Range : 0.001~9.999
- — Output Delay Timer Range：0.01~99.99S

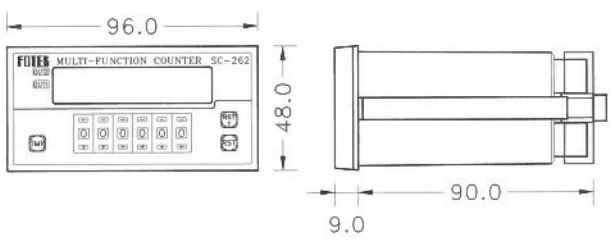
☆**Comply With CE Certificate**
- — EMC / EMI / ESD / LVD

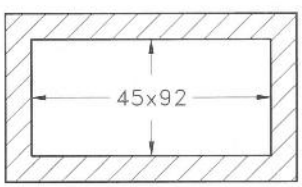
General Specification

Type	Total Counter	Single Preset Counter	Dual Preset Counter
Model	**SC-260**	**SC-261**	**SC-262**
Fixed Hole				
Power Supply	110V / 220VAC ± 20% , 50/60 Hz		
DC Power Output	12V / 60mA max.		
Input Method	Single or Two Phase Input Selectable		
Counting Method	Increasement or Decreasement Counting Selectable		
Response Frequence	High Speed <A> < 2.5K CPS , Low Speed <B> < 60 CPS		
Output Method		One Relay	Two Relay
Output Control		N / R / C	Selectable
Contact Rated		5A / 250 VAC Max.	
Output Delay Timer		0.01S~99.99S	
Divisor	Range：1~9999		
Multiplier	Range：0.001~9.999		
Memory Method	EEPROM		
ESD Strength	Over 8 KV		
Dielectric Strength	Over 2.5 KV / 1min , Between Power And Each Terminal		
Isolation Strength	Over 100MΩ/500VDC , Between Power And Each Terminal		
Operating Temp./Hum.	-20°C ~ +80°C ; 35% ~ 85% RH		

Connection Diagram & Dimansion







Inner DIP Switch

Nr.	Function
1	ON : Two Phase Input
	OFF : Single Phase Input
2	ON : Decreasement Counter
	OFF : Increasement Counter
3	ON : Multiplier
	OFF : Divisor
4	ON : Setting of Divisor or Multiplier
	OFF : Counting Status

A/B Slide Switch

Counting	Hi → Lo , L<2V , 6V<Hi<30V
A	2.5K CPS Max.
B	60 CPS Max.

Selecting of Decimal Point

Push The TMR & RST Key

To Select The Decimal Point

Setting of Delay Time (t)

Push The TMR Key 2 Secretary,

Push The RST Key To Increase The Delay Time

Push The RST/T Key To Decrease The Delay Time

Selecting of Divisor or Multiplier

Divisor : The Inner DIP Switch #3 Set At "OFF" Position < Range : 1~9999 >

Multiplier : The Inner DIP Switch #3 Set At "ON" Position < Range : 0.001~9.999 >

Set The Inner DIP Switch #4 To "ON" Position,

Push The RST Key To Increase The Value of Divisor or Multiplier.

Push The RST/T Key To Decrease The Value of Divisor or Multiplier.

After Finishing Setting, Please Set The Inner DIP Switch #4 To "OFF" Position.

Setting of The Preset Value(SV_1)

Push The TMR Key To Set The SV_1.

Push The RST Key To Increase The Preset Value of SV_1

Push The RST/T Key To Decrease The Preset Value of SV_1

SM series DIN 72 x 72/96x48 TACHOMETER & LINE SPEED METER

CE

☆ Multi-Meter
Tachometer , Duty Meter &
Line Speed Meter .
☆ Pules per Revolution Settable .
☆ Sampling Time Settable .
☆ Decimal Point Auto Shift .
☆ Unit of Diameter : mm

Specification

Outline	DIN 72 x 72 x 120	DIN 96 x 48 x 90
Model	**SM - 30**	**SM - 20**
Power Supply	110V / 220VAC ±20% , 50/60Hz	
DC Power Output	12VDC / 60mA Max.	
Sampling Time(S.T.)	1 ~ 99 Sec Settable	
Pules Per Revolution(PPR)	1 ~ 999 PPR Settable	
Decimal Point	Auto Shift	
Response Frequence	High Speed < 2.5K Hz ; Low Speed < 30Hz	
Dielectric Strength	Over 2.5 KV / 1 min , Between Power And Each Terminal	
Isolation Strength	Over 100MΩ/500VDC , Between Power And Each Terminal	
Operating Temp./Hum.	-20°C ~ +60°C ; 35 ~ 85% RH	
Weight		

Setting of Lock or Limit

SM-30

Slide Switch (NRC)
N : Lock of Parameter Setting
R : Un-Lock of Parameter Setting
Inner DIP Switch
#1 ON : With Limit Setting
#1 OFF : Without Limit Setting
#2 NO : Non Decimal Poine
#2 OFF : Decimal Point Auto shift

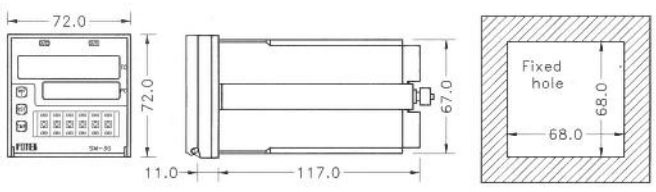
SM-20

DIP Switch
#1 ON : Un-Lock of Parameter Setting
#1 OFF : Lock of Parameter Setting

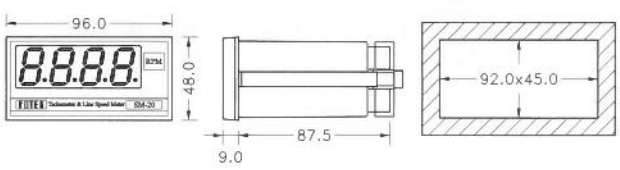
#2 ON : With Limit Setting
#2 OFF : Without Limit Setting

Dimension

SM-30



SM-20



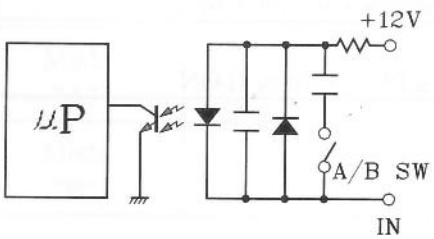
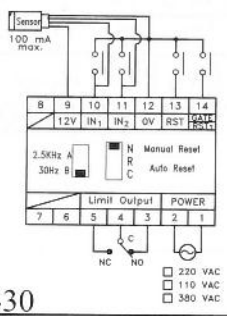
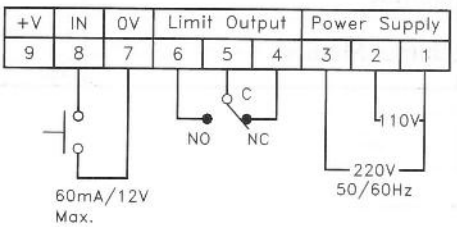
Setting of Parameter

Parameter	Display	Remarks
Running Status 運轉狀態	0000	Slide Switch < N/R > N：Lock R：Un - Lock
Push (SET) 2 sec 按 (SET) 鍵 2 秒		
Setting of PPR 每轉信號數設定	P001	1. Range：1 ~ 999 2. PPR：Pulses per Revolution 3. Set By (∧) & (∨) Key<SM-30> Set By (UP) & (DN) Key<SM-20>
Push (SET) 按 (SET) 鍵		
Setting of S.T. 取樣時間設定	t001	1. Range：1 ~ 99 secretary 2. S.T.：Sampling Time 3. Set By (∧) & (∨) Key<SM-30> Set By (UP) & (DN) Key<SM-20>
Push (SET) 按 (SET) 鍵		
Setting of Diameter 直徑設定	d001	1. Range：1 ~ 999 mm 2. Set By (∧) & (∨) Key<SM-30> Set By (UP) & (DN) Key<SM-20>
Push (SET) 按 (SET) 鍵		
Setting of Limit 上限設定	0000	1.Range：0 ~ 9999 2. Set By (∧) & (∨) Key<SM-30> Set By (UP) & (DN) Key<SM-20>

Selection of Meter < Inner Rotory Switch >

Nr	Type of Meter		Method of Measuring		
0	Tachometer	< RPM >	RPM	Revolutions per Minute	每分鐘幾轉
1	Tachometer	< RPS >	RPS	Revolutions per Second	每秒鐘幾轉
2	Tachometer	< RPH >	RPH	Revolutions per Hour	每小時幾轉
3	Line Speed Meter	< M/min >	M/min	Meter per Minute	每分鐘幾米
4	Line Speed Meter	<Yd/min >	Yd/min	Yard per Minute	每分鐘幾碼
5	Duty Meter	<sec>	Sec	Time of Duty	通過時間

Input Circuit & Connection Diagram

Input Circuit	Connection Diagram	
	 SM-30	 SM-20

C-3X DIN 72 X 72
series μ P Multi-Function Up / Down Counter

* Micro - Processor μ< P > Based.
* Memory Method : EEPROM.
* High Response Frequence : 5 KHZ
* High Reliability With Hi - Anti - Noise Circuit.
* Easy To Test With Input LED.
* Easy to Monitor With 0.56" LED Display.
* Two Phase Reversable Counter or Single Input Additional Counter.
* Wide Range of Operating Voltage 90~250 VAC , 50/60Hz
* Divisor Range : 1 ~ 9999
  Multiplier Range : 0.001 ~ 9.999
* One Decimal Point Available , Accept Order To Manufacture.

General Specification

Type	Single Preset		Dual Preset		Total & Preset	
Model	C-341	C-361	C-342	C-362	C-3617	C-3427
Power Supply	9~250 VAC , 50/60HZ					
DC Power Output	12VDC/60mA max.					
Memory Method	EEPROM					
Dielectric Strength	Over 2.5KV/1min. <Between Power and Each Terminal >					
Isolation Strength	Over 50M Ω /500VDC , <Between Power and Each Terminal >					
Operating Temp./Hum	-20°C~+60°C;35%~85%					
Response Frequence	High Speed > 5K CPS ; Low Speed > 100CPS					
Count Input	Negative Logic ; L < 2V ; High > 6V					
Reset Input	Negative Logic ; L < 2V ; High > 6V					
Output Status	One Relay		Two Relay		One Relay	Two Relay
Output Control	N/R/C or Comparison Selectable					
Timer	Time Preset of Auto Reset , Range : 0.01s~99.99s					
Divisor / Multiplier	Range of Divisor : 1~9999 , Range of Multiplier : 0.001~9.999					
Outline	DIN 72 X 72 , Fixed Hole : 68 X 68mm X mm					
Output Method	Single Preset : CV≧ PV → Relay I ON Dual Preset : C≧ PV_1 → Relay I ON , CV≧ PV_2 → Relay II ON					

Function of Select Switch

Rotary Switch < RS >

NO.	Type of Counter	Method of Counting
0	Single Preset Up/Down Counter 一段設定加減算計數器	Two Phase Reversable Counter 二相加減算
1	Dual Preset Up/Down Counter 二段設定加減算計數器	Two Phase Reversable Counter 二相加減算
2	Total & Single Preset Addition Counter 總數 + 一段計數器	Single Phase Addition Counter 單相加算
3	Total & Dual Preset Addition Counter 總數 + 二段計數器	Single Phase Addition Counter 單相加算

DIP Switch < Innner PCB > < SW I >

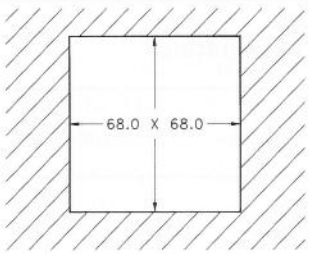
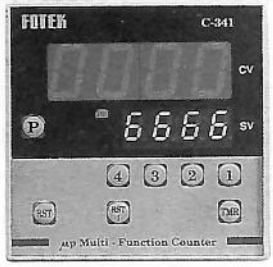
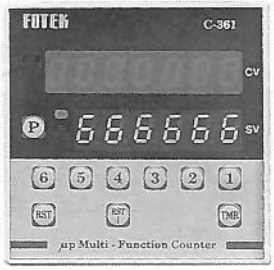
NO.	Function
1	ON : SV < D > for Setting of Divisior. < Range From 1 To 9999 > or Multiplier < Range From 0.001 To 9.999 > After Setting , Please Set It To OFF Position.
2	ON : 4 digits ; OFF : 6 digits
3	ON : Multiplier ; OFF : Divsior
4	ON : Hi/Go/Lo Control Output ; OFF : N/R/C Control Output

A/B Slide Switch < Response Time Selected > < SW II >

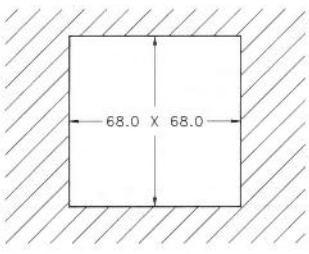
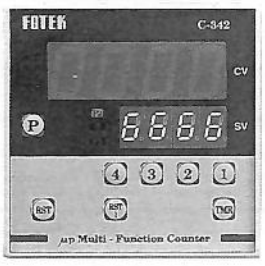
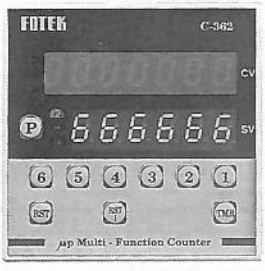
Counting	Lo → Hi	L < 2V , 6V < Hi < 30VDC
Mode "A"	5K CPS,	Cycle Duty Ration 1 : 1 , Suited for Solid State Input Such as Tansister or CMOS IC.
Mode "B"	100 CPS,	Response Time 15ms , Suited for Contact Input Such as Limit Sw , Relay or Reed Sw , Etc.

C-3X series DIN 72 X 72 μP Multi-Function Up / Down Counter

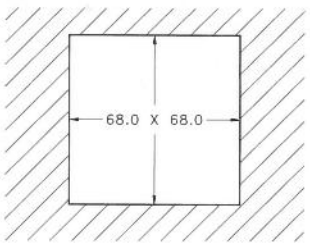
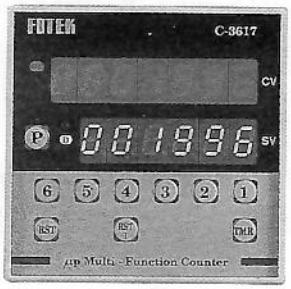
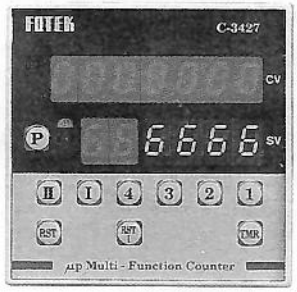
Single Preset Counter

Model	C-341	C-361
		
Digits of Counting	4 Digits	7 Digits
Digits of Setting	4 Digits	6 Digits
Display Method	Counting : 0.56" Red LED Setting : 0.36" Green LED	Counting : 0.36" Red LED Setting : 0.36" Green LED
Counting Method	Addition , Two phase Reversable Counter	
Output Method	One Relay	
Output Control	N/R/C or Comparison	
Weight	Appr.385g	Appr.385g

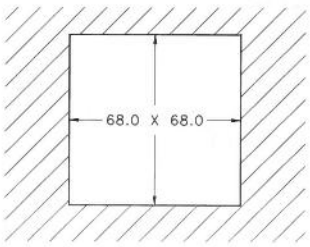
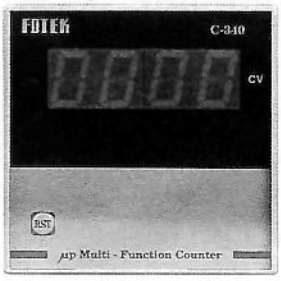
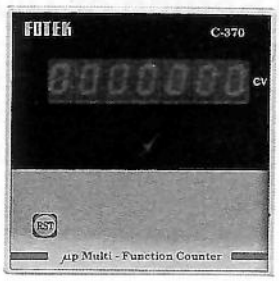
Dual Preset Counter

Model	C-342	C-362
		
Digits of Counting	4 Digits	7 Digits
Digits of Setting	4 Digits	6 Digits
Display Method	Counting : 0.56" Red LED Setting : 0.36" Green LED	Counting : 0.36" Red LED Setting : 0.36" Green LED
Counting Method	Addition , Two phase Reversable Counter	
Output Method	Two Relay	
Output Control	N/R/C or Comparison	
Weight	Appr.390g	Appr.390g

Total & Preset Counter

Model	C-3617	C-3427
		
Type	Total & Single Preset	Total & Dual Preset
Digits of Total Counter	7 Digits	7 Digits
Digits of Setting	6 Digits	Main Setting : 4 Digits Presetting : 2 Digits
Display Method	Counting : 0.56" Red LED Setting : 0.36" Green LED	Counting : 0.36" Red LED Setting : 0.36" Green LED
Counting Method	Addition	
Output Control	N/R/C or Comparison	
Output Method	One Relay	Two Relay
Weight	Appr.385g	Appr.390g

Total Counter

Model	C-340	C-370
		
Digits of Counting	4 Digits	7 Digits
Display Method	Counting : 0.56" Red LED	Counting : 0.36" Red LED
Counting Method	Addition , Two phase Reversable Counter	
Weight	Appr.360g	Appr.370g

■ Function of Key

(P) Selection of Setting Address

Single Preset :	P		
Dual Preset :	P1	P2	P1/1st Setting , P2/2nd Setting
Total & Preset :	P	D	P/Setting Value , D/Counting Value of Preset Counter

(TMR) Setting of Output Delay Time

Depress The TMR Key To Display The Value of Timer < Delay Time > < SV >
Changed By The Numberical Key . < Range : 0.01s~ 99.99s >

(RST) Reset Total Counter

Depress The RST Key To Reset The Counting Value to Zero.

(RST/I) Reset of Preset Counter

Depress The (RST/I) Key To Reset The Value of Preset Counter. < Total & Preset Type >

(1)(2)(3)(4)(5)(6) Preset of Setting Value < Numberical Type >

(1) 1st Digit Setting Key.
(2) 2st Digit Setting Key.
(3) 3rd Digit Setting Key.
(4) 4th Digit Setting Key.
(5) 5th Digit Setting Key.
(6) 6th Digit Setting Key.

Note :
P , P1 , P2 , D are LED of Address.

■ Setting of Divisor or Multiplier 除數或乘數設定

Divisor : SW I -3 Set To OFF Position . < Range : 1~9999 >
Multiplier : SW I -3 Set To ON Position . < Range : 0.001~9.999 >
Set The SW I -1 To ON Position , The Display < SV > Will Display The Value of Divisior or Multiplier Which May Be Set By The Numberical Key.
After Finishing Setting , Please Set SW I -1 To OFF Position.
除法器：SW I -3 設定在 OFF 位置，範圍：1~9999
乘法器：SW I -3 設定在 ON 位置，範圍：0.001~9.999
SW I -1 設至 ON 位置，顯示器 < SV > 將顯示除數或乘數的設定值，可由數字鍵設定。完成設定後，務必將 SW I -1 切回 OFF 的位置。

Illumination

C-3427

Display 顯示值

CV : Total Counter 總數計數器
SV : Preset Counter 設定計數器
SV1 : Main Setting Value or Counting Value of Preset Counter 主設定值或設定計數器計數值
SV2 : Preset Value 預報設定值

LED 指示燈

P : SV Displays The Setting Value of Preset Counter
SV 值是顯示設定計數器的設定值
D : SV Displays The Counting Value of Preset Counter
SV 值是顯示設定計數器的計數值
OP1 : OP1 LED ON When Relay I ON
OP2 : OP2 LED ON When Relay II ON

Key 按鍵

(P) : Selecting of Preset Value or Counting Value of The Preset Counter. 設定計數器的設定值 or 計數值的選擇鍵

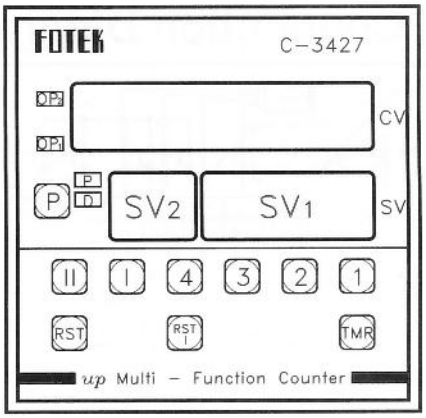
(II) (I) : Setting of Preset Value . < SV2 > 預報值設定鍵

(4) (3) (2) (1) : Setting of Main Setting Value . < SV1 > 主設定值設定鍵

(RST) : Reset of Total Counter. 總數計數器歸零鍵

(RST I) : Reset of Preset Counter. 設定計數器歸零鍵

(TMR) : Setting of Output Delay Time. 輸出延遲時間設定鍵



Control Output 輸出控制

CV≧< SV1 - SV2 > → Relay I ON
CV≧ SV1 → Relay II ON
Controlled by N/R/C Control Selectable .

C-3617

Display 顯示值

CV : Total Counter 總數計數器
SV : Preset Counter 設定計數器
Main Setting Value or Counting Value of Preset Counter 主設定值或設定計數器的計數值

Key 按鍵

(P) : Selecting of Preset Value or Counting Value of The Preset Counter 設定計數器的設定值 or 計數值的選擇鍵

(6) (5) (4) (3) (2) (1) : Setting of Preset Counter . < SV > 設定值設定鍵

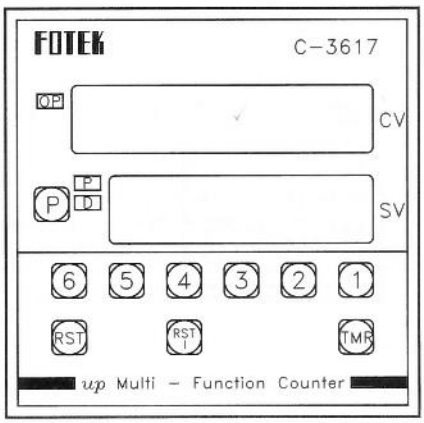
(RST) : Reset of Total Counter. 總數計數器歸零鍵

(RST I) : Reset of Preset Counter. 設定計數器歸零鍵

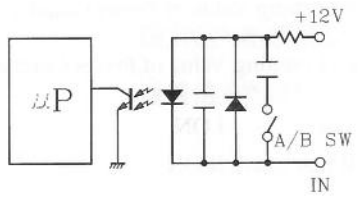
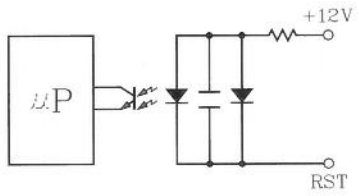
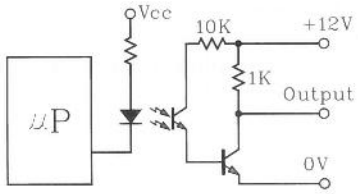
(TMR) : Setting of Output Delay Time. 輸出延遲時間設定鍵

LED 指示燈

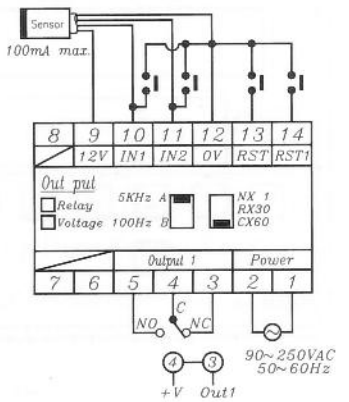
P : SV Displays The Setting Value of Preset Counter
SV 值是顯示設定計數器的設定值
D : SV Displays The Counting Value of Preset Counter
SV 值是顯示設定計數器的計數值
OP : LED on When Relay ON



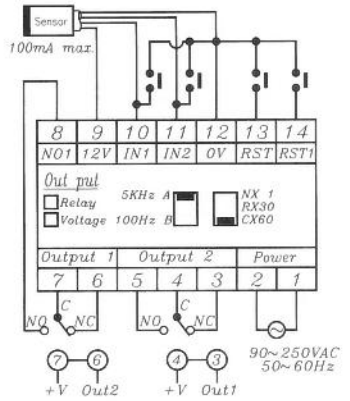
Interface Circuit

Input Circuit	Voltage Circuit	Reset Circuit
		

Connection Diagram



M-30 / M-31 / C-341 / C-361 / C-3617

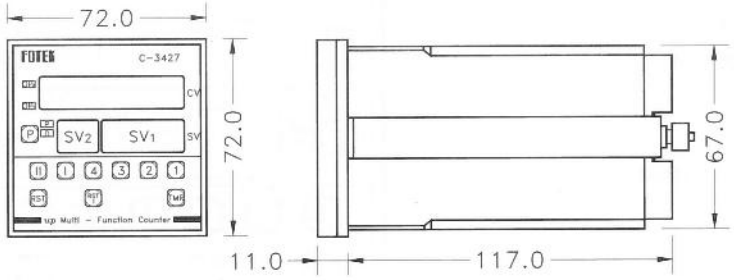


M-32 / C-342 / C-362 / C-3427

Note : Additional Counter , Please Input From IN1

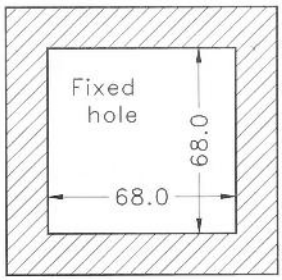
Dimension

Outline

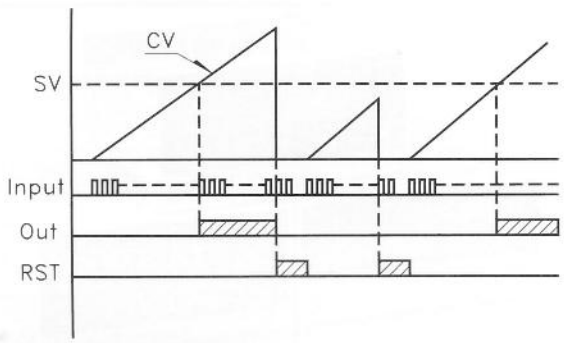
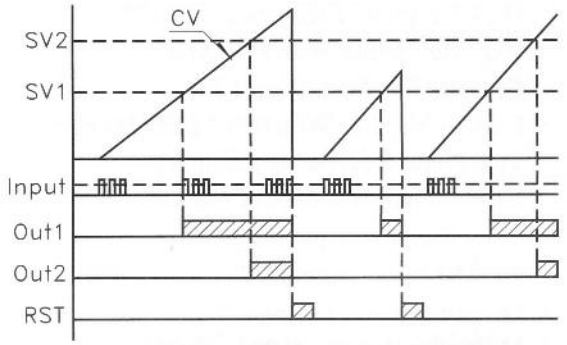
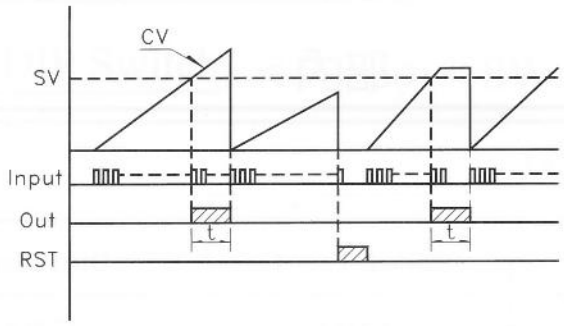
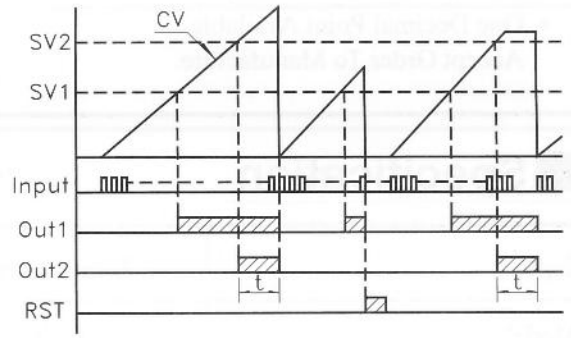
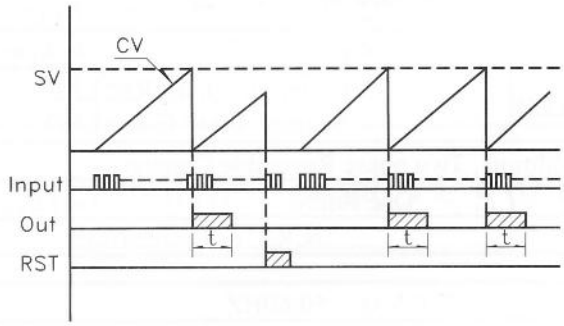
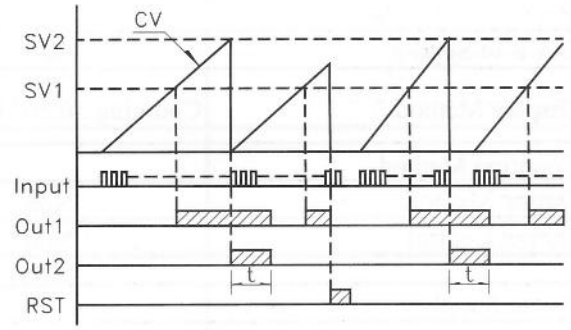
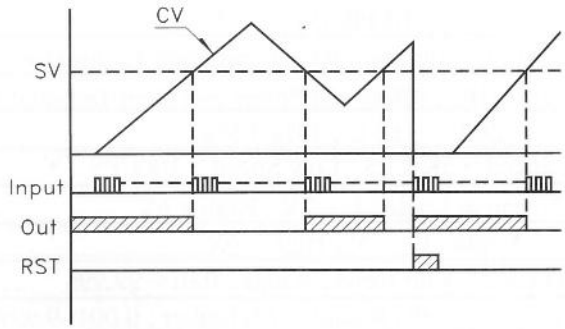
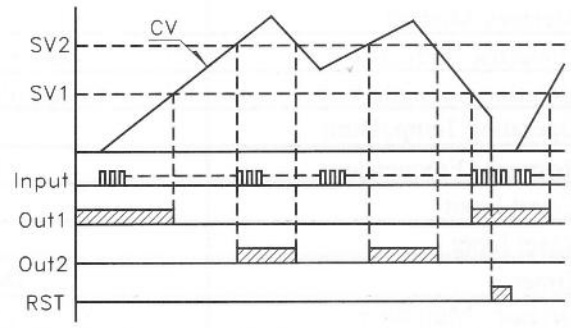


Fixed Hole

< Thickness 1~8mm >



N / R / C Slide Switch < Output Control Selected >

	Single Preset Counter	Dual Preset Counter
N		
R		
C		
Comparison		

C-26X DIN 48 X 96
series μP Multi-Function Up / Down Counter

* Micro - Processor < μP > Based.
* Memory Method : EEPROM.
* High Response Frequence : 5 KHZ
* High Reliability With Hi - Anti - Noise Circuit.
* Easy To Test With Input LED.
* Easy to Monitor With 0.56" LED Display.
* Two Phase Reversable Counter or Single Input Additional Counter.
* Wide Range of Operating Voltage 90~250 VAC , 50/60Hz
* Divisor Range : 1 ~ 9999
  Multiplier Range : 0.001 ~ 9.999
* One Decimal Point Available , Accept Order To Manufacture.

Specification

Type	Total Counter	Single Preset	Dual Preset
Model	C-260	C-261	C-262
Digits of Counting	6 digits	6 digits	6 digits
Digits of Setting	Non	6 digits	6 digits
Display Method	Counting : 0.56" Red LED	Counting : 0.56" Red LED Setting : 0.36" Green LED	
Counting Method	Addition , Two phase Reverable Counter		
Output Method	Non	One Relay	Two Relay
Output Control	Non	N/R/C or Comparison	

Power Supply	9~250 VAC , 50/60HZ		
DC Power Output	12VDC/60mA max.		
Memory Method	EEPROM		
Dielectric Strength	Over 2.5KV/1min. <Between Power and Each Terminal >		
Isolation Strength	Over 50M Ω /500VDC , <Between Power and Each Terminal >		
Operating Temp./Hum	-20°C ~ +60°C ; 35%~85%		
Response Frequence	High Speed > 5K CPS ; Low Speed > 100CPS		
Count Input	Negative Logic ; L < 2V ; High > 6V		
Reset Input	Logic ; L < 2V ; High > 6V		
Timer	Delay Timer of Auto Reset , Range : 0.01s~99.99s		
Divisor / Multiplier	Range of Divisor : 1~9999 , Range of Multiplier : 0.001~9.999		
Weight	Apr.215g	Apr.235g	Apr.280g

■ Function of Select Switch

Rotary Switch < RS >

NO.	Type of Counter	Method of Counting
0	Single Preset Up/Down Counter 一段設定加減算計數器	Two Phase Reversable Counter 二相加減算
1	Dual Preset Up/Down Counter 二段設定加減算計數器	Two Phase Reversable Counter 二相加減算
2	Total & Single Preset Addition Counter 總數+一段設定計數器	Single Phase Addition Counter 單相加算
3	Total & Dual Preset Addition Counter 總數+二段設定計數器	Single Phase Addition Counter 單相加算

Inner DIP Switch <內部><SW I>

NO.	Function
1	ON : SV < D > for Setting of Divisior. < Range From 1 To 9999 > or Multiplier < Range From 0.001 To 9.999 > After Setting , Please Set It To OFF Position. 除數設定範圍 **1~9999**，乘法設定範圍
2	ON/4 digits Setting **4** 位數設定 OFF/6 digits Setting **6** 位數設定
3	ON : Multiplier 乘法器 OFF : Divsior 除法器
4	ON/Comparison Control Output 比較輸出 OFF / N/R/C Control Output N/R/C 控制輸出

Fnner DIP Switch <內部><SW II>

NO.	Function
1	ON/IN1 Low Speed Response Frequence , 100 CPS max. 低速 100 CPS OFF/IN1 High Speed Response Frequence , 5K CPS max. 高速 5K CPS
2	ON/IN2 Low Speed Response Frequence , 100 CPS max. 低速 100 CPS OFF/IN2 High Speed Response Frequence , 5K CPS max. 高速 5K CPS
3	ON/Output Control "R" 輸出控制 **"R"** 功能
4	ON/Output Control "C" 輸出控制 **"C"** 功能

★ Both "3" and "4" Are ON or OFF , Output Control "N"
"3" 及 "4" 或全 OFF，輸出控制 "N" 功能

Illumination

■ Function of Key

(P) Selection of Setting Address

Single Preset :	P		P/ Preset Value
Dual Preset :	P1	P2	P1/1st Setting , P2/2nd Setting
Total & Preset :	P	D	P/Setting Value , D/Counting Value of Preset Counter

(TMR) Setting of Output Delay Time

Depress The TMR Key To Display The Value of Timer < Delay Time > < SV >
Changed By The Numberical Key . < Range : 0.01s~ 99.99s >

(RST) Reset of Counting Value

Depress The RST Key To Reset The Counting Value.

(RST) Reset of Preset Counter

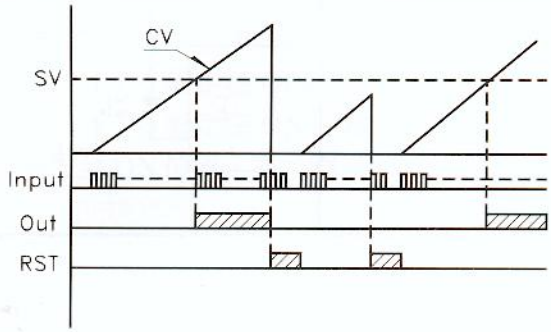
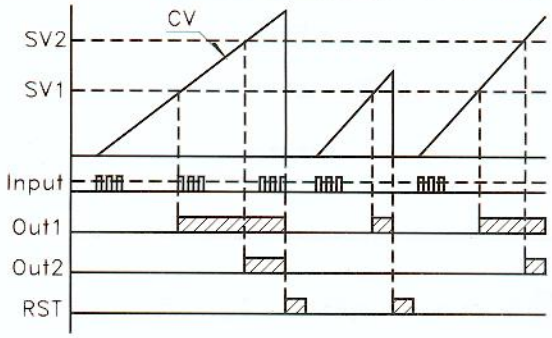
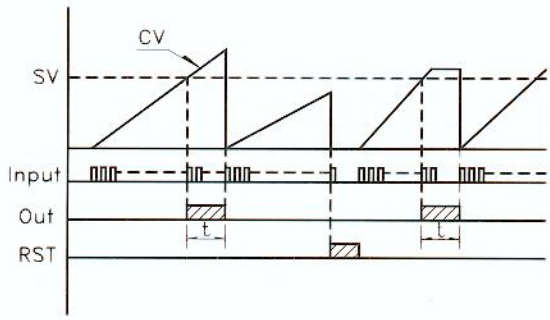
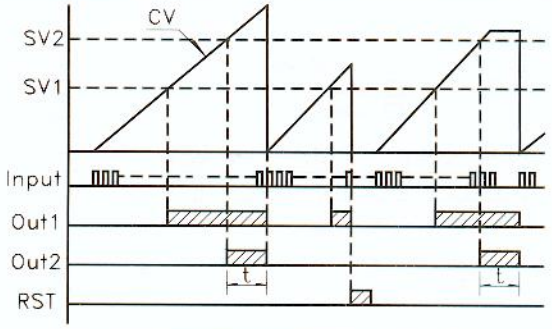
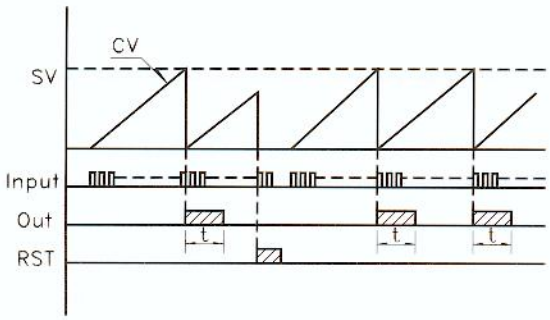
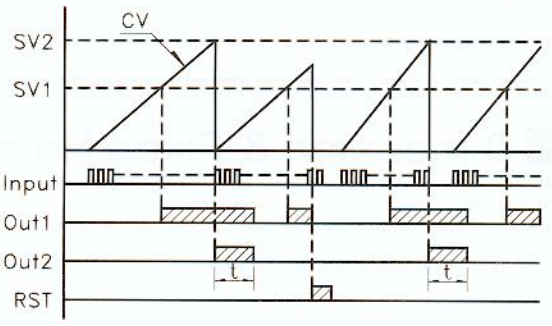
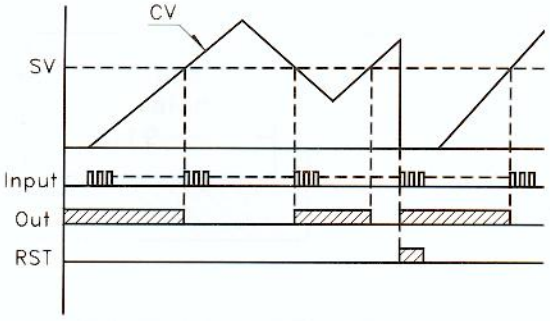
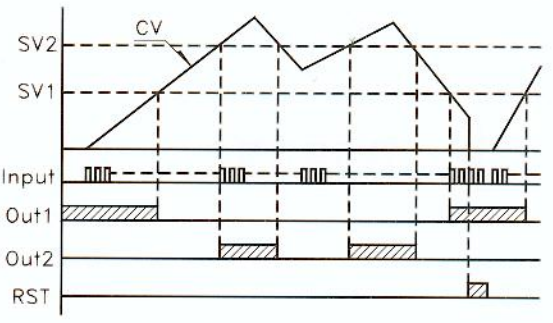
Depress The RST Key To Reset The Value of Preset Counter.

(1)(2)(3)(4)(5)(6) Preset of Setting Value < Numberical Key >

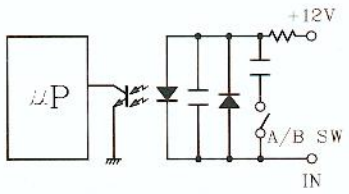
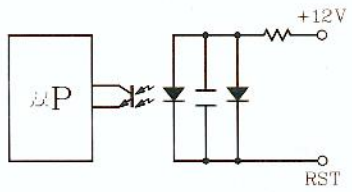
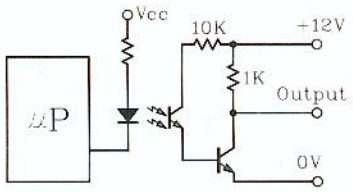
(1) 1st Digit Setting Key.
(2) 2st Digit Setting Key.
(3) 3rd Digit Setting Key.
(4) 4th Digit Setting Key.
(5) 5th Digit Setting Key.
(6) 6th Digit Setting Key.

Note :
P , P1 , P2 , D are LED of Address.

N / R / C Slide Switch < Output Control Selected >

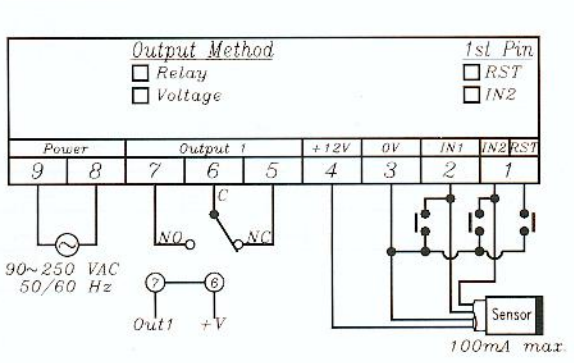
	Single Preset Counter	Dual Preset Counter
N		
R		
C		
Comparison		

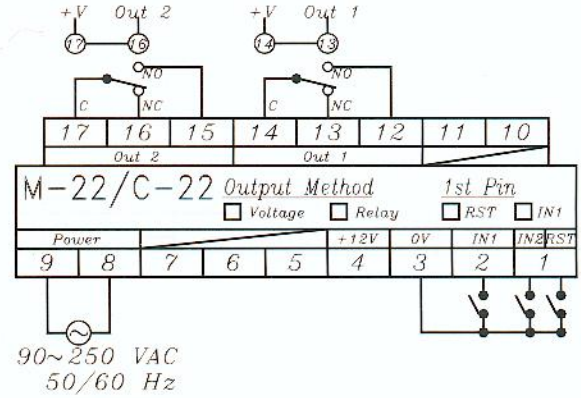
Interface Circuit

Input Circuit	Voltage Circuit	Reset Circuit
		

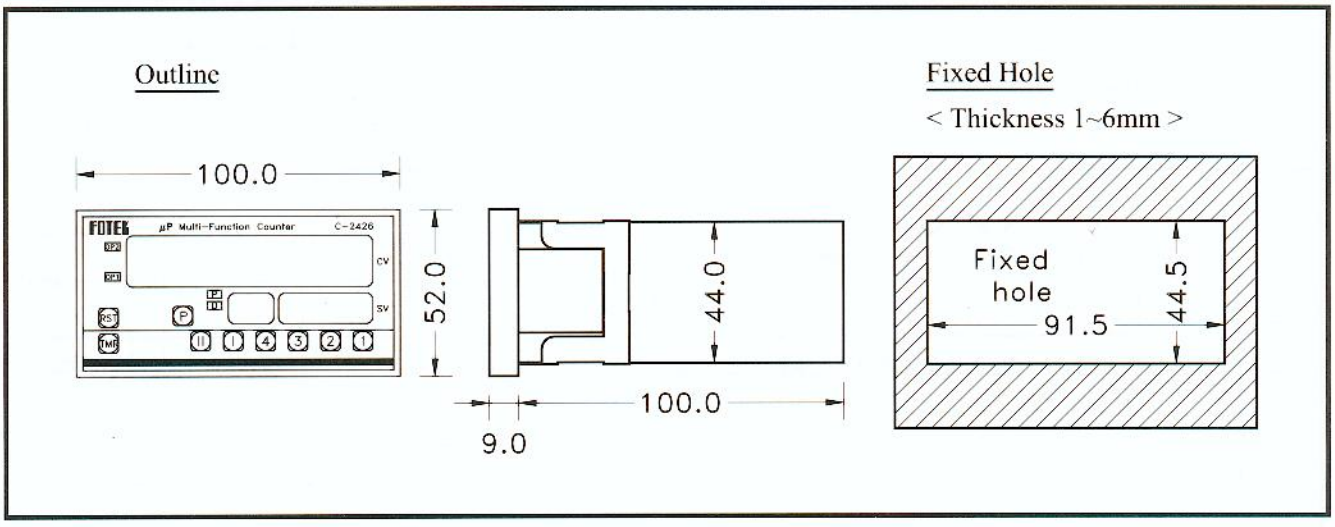
Connection Diagram

M-2X / C-2X





Dimension & Fixed Hole



Setting of Divisor or Multiplier 除數或乘數設定

Divisor : SW I -3 Set To OFF Position . < Range : 1~9999 >
Multiplier : SW I -3 Set To ON Position . < Range : 0.001~9.999 >
Set The SW I -1 To ON Position , The Display < SV > Will Display The Value of Divisor or Multiplier Which May Be Set By The Numberical Key.
After Finishing Setting , Please Set SW I -1 To OFF Position.
除法器：**SW I -3** 設定在 **OFF** 位置，範圍：**1~9999**
乘法器：**SW I -3** 設定在 **ON** 位置，範圍：**0.001~9.999**
SW I -1 設至 **ON** 位置，顯示器 **< SV >** 將顯示除數或乘數的設定值，可由數字鍵設定。完成設定後，務必將 **SW I -1** 切回 **OFF** 的位置。

M-3X series DIN 72 X 72 Tachometer & Line Speed Meter

* Micro - Processor Based.
* Memory Method : EEPROM.
* Multi - Input Method :
  1 PPR , 30PPR or 60PPR Selectable
* Easy To Monitor With 14mm.
  Large Size LED Displayer.
* Multi - Functing Meter :
  Tachometer or Line Speed Meter Selectable
  Decimal Point Selectable
* Lowest Response Speed :
  3.0 RPM/1PPR , 0.1 RPM/30PPR or 60PPR
* Accuracy of Diameter Setting : 0.1 mm
* Wide Range of Operating Voltage : 90~250VAC , 50/60Hz
* Measure Method
  1, 10 or 20 PPR Available , Accept Order To Manufacture.

General Specitication

Meter	Tachometer	Tachometer & Line Speed Meter	
Model	**M-30**	**M-31**	**M-32**
Type	Non Preset	Single Preset	Dual Preset
Digits of Measuring	4 digits		
Digits of Setting	Non	4 digits	
Display Method	0.56" Red LED	Measure : 0.56" Red LED Setting : 0.36" Green LED	
Measure Method	1 , 30 or 60 Pulses per Revolution Selected		
Sampling Time	2 Sec or 20 Sec Selected		
Input Method	Negative Logic , Low < 2V High > 6V		
Unit of Measuring	Tachometer : RPM , RPS or RPH Line Speed Meter : M/Min , MM/Sec , Ft/Min or Yd/Min		
Unit of Setting	Non	Line Speed Meter : mm < Diameter >	
Decimal Point	Non or One Point Selected		
Reponse Frequence	High Speed < 1KHZ , Low Speed < 100Hz Selected		
Output Method	Non	One Relay	Two Relay
Output Control	Non	Comparison	
Power Supply	90~250 VAC , 50/60HZ		
DC Power Output	60mA/12VDC max.		
Isolation Strength	Over 50M Ω /500VDC < Between Power and Each Terminal >		
Dielectric Strength	Over 2.5KV/1min. < Between Power and Each Terminal >		
Weight	Appr.360g	Appr.385g	Appr.390g

Function of Select Switch

Rotary Switch < Type of Meter Selected >

NO.	Type of Meter	Method of Measuring
0	Tachometer **< RPM >**	**PRM** Revolution per Minute 每分鐘幾轉
1	Tachometer **< RPS >**	**RPS** Revolution per Second 每秒鐘幾轉
2	Tachometer **< RPH >**	**RPH** Revolution per Hour 每小時幾轉
3	Line Speed Meter **< m/min >**	**m/min** Meter per Minute 每分鐘幾米
4	Line Speed Meter **< mm/sec >**	**mm/sec** Mini - Meter per Second 每秒鐘幾厘米
5	Line Speed Meter **< m/sec >**	**m/sec** Meter per Second 每秒鐘幾米
6	Line Speed Meter **< ft/min >**	**ft/min** Feet per Minute 每分鐘幾尺
7	Line Speed Meter **< yd/min >**	**yd/min** Yard per Minute 每分鐘幾碼

DIP Switch < Function Selected > < SW I >

NO.	Function
1	ON : 4 digits **4** 位數 **< M-3X >** OFF : 5 digits **5** 位數 **< M-2X >**
2	ON : Single Preset Type 一段設定型 OFF : Dual Preset Type 二段設定型
3	ON : 20 sec Sampling Time 取樣時間 **20** 秒 OFF : 2 sec Sampling Time 取樣時間 **2** 秒
4	ON : One Decimal Point 小數一位 OFF : NO Decimal Point 無小數點

N/R/C Slide Switch < Pulses per Revolution Selected > < SW II >

N : 1 PPR , R : 30 PPR , C : 60 PPR < PPR : Pulse Per Revolution >

A/B Slide Switch < Response Time Selected > < SW III >

Measure	Lo → Hi	L < 2V , 6V < Hi < 30VDC
Mode "A"	1 KHZ	Suited for Solid State Input Such as Tansister or CMOS IC.
Mode "B"	100 Hz	Suited for Contact Input Such as Limit Sw , Relay or Reed Sw , Etc.

Function of Key

(P) Selection of Setting Address

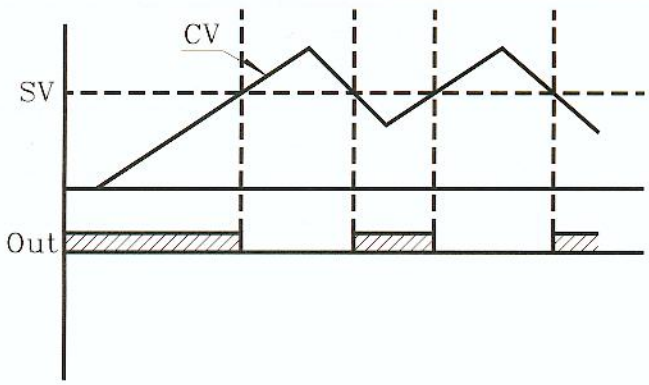
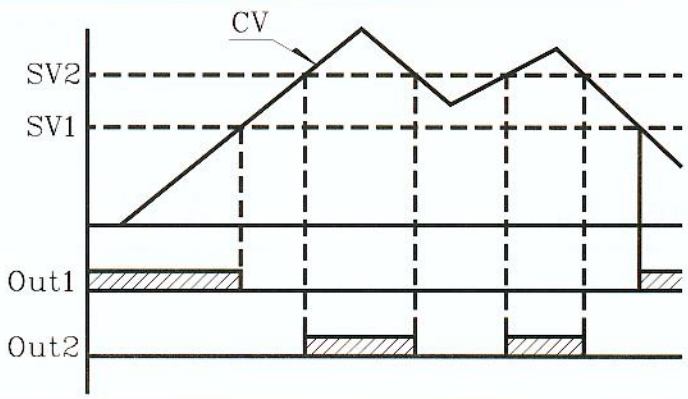
Single Preset : Tachometer / (P) Fixed
Line Speed Meter / (P) ⇄ (D)
Dual Preset : Tachometer / (P2) ⇄ (P1)
Line Speed Meter / (P2) ⇄ (D) ⇄ (P1)

(P) :Limit Setting
(D) :Diameter Setting
(P1) :Lo Limit Setting
(P2) :Hi Limit Setting

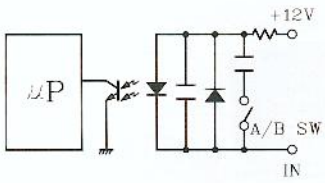
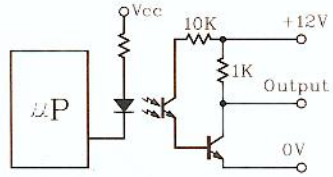
(1) (2) (3) (4) Numerical Key for Setting

(1) The 1st Digit Setting Key.
(2) The 2st Digit Setting Key.
(3) The 3rd Digit Setting Key.
(4) The 4th Digit Setting Key.

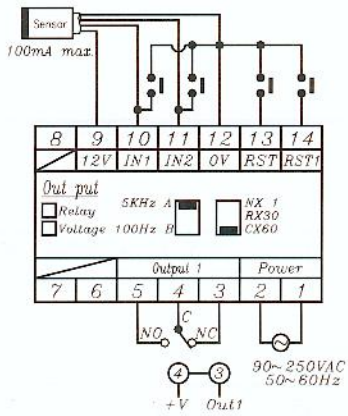
Output Control

	Output Timing Chart	Remarks
Single Preset		CV < SV → Relay ON CV ≥ SV → Relay OFF
Dual Preset		CV < SV_1 → Relay I ON SV_1 ≤ CV < SV_2 → Relay I OFF CV ≥ SV_2 → Relay II ON

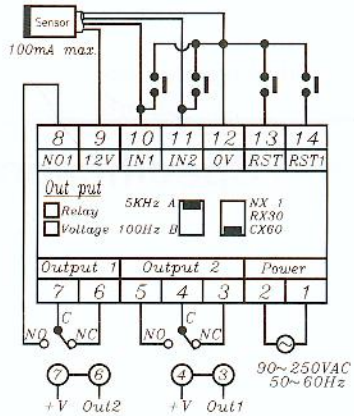
Interface Circuit

Input Circuit	Voltage Output
	

Connection Diagram



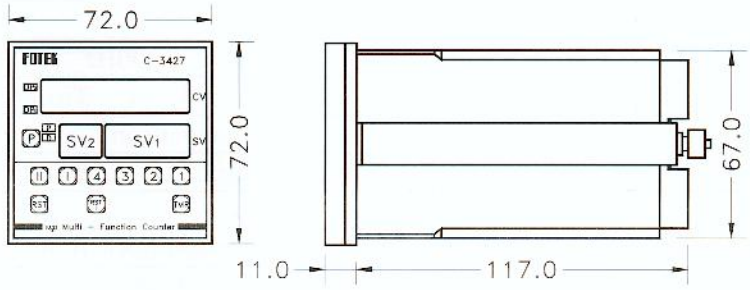
M-30/M-31/C-341/C-361/C-3617



M-32/C-342/C-362/C-3427

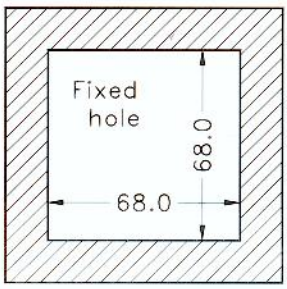
Dimension & Fixed Hole

Outline



Fixed Hole

< Thickness 1~8mm >



M-2X series DIN 48 X 96 Tachometer & Line Speed Meter

* Micro - Processor Based.
* Memory Method : EEPROM.
* Multi - Input Method :
  1 PPR , 30PPR or 60PPR Selectable
* Easy To Monitor With 14mm.
  Large Size LED Displayer.
* Multi - Functing Meter :
  Tachometer or Line Speed Meter Selectable
  Decimal Point Selectable
* Lowest Response Speed :
  3.0 RPM/1PPR , 0.1 RPM/30PPR or 60PPR
* Accuracy of Diameter Setting : 0.1 mm
* Wide Range of Operating Voltage : 90~250VAC , 50/60Hz
* Measure Method
  1, 10 or 20 PPR Available , Accept Order To Manufacture.

General Specification

Meter	Tachometer	Tachometer & Line Speed Meter	
Model	**M-20**	**M-21**	**M-22**
Preset	Non	Single Preset	Dual Preset
Digits of Counting	5 digits	5 digits	5 digits
Digits of Setting	Non	5 digits	5 digits
Display Method	0.56" Red LED	Measure : 0.56" Red LED Setting : 0.36" Green LED	
Measure Method	1 , 30 or 60 Pulses per Revolution		Selected
Sampling Time	2 Sec or 20 secretary		Selected
Input Method	Negative Logic , Low < 2V High > 6V		
Unit of Measuring	Tachometer : RPM , RPS or RPH Line Speed Meter : M/Min , MM/Sec , Ft/Min or Yd/Min		
Unit of Setting	Non	Line Speed Meter : mm < Diameter >	
Decimal Point	Non or One Point		Selected
Response Frequence	High Speed < 1KHZ , Low Speed < 100Hz		Selected
Output Method	Non	One Relay	Two Relay
Output Control	Non	Comparison	
Power Supply	90~250 VAC , 50/60HZ		
DC Power Output	60mA/12VDC max.		
Isolation Strength	Over 50M Ω /500VDC < Between Power and Each Terminal >		
Dielectric Strength	Over 2.5KV/1min. < Between Power and Each Terminal >		
Weight	Appr.215g	Appr.230g	Appr.275g

Function of Select Switch

Rotary Switch < Type of Meter Selected > < RS >

NO.	Type of Meter	Method of Measuring
0	Tachometer < **RPM** >	**PRM** Revolution per Minute 每分鐘幾轉
1	Tachometer < **RPS** >	**RPS** Revolution per Second 每秒鐘幾轉
2	Tachometer < **RPH** >	**RPH** Revolution per Hour 每小時幾轉
3	Line Speed Meter < **m/min** >	**m/min** Meter per Minute 每分鐘幾米
4	Line Speed Meter < **mm/sec** >	**mm/sec** Mini - Meter per Second 每秒鐘幾厘米
5	Line Speed Meter < **m/sec** >	**m/sec** Meter per Second 每秒鐘幾米
6	Line Speed Meter < **ft/min** >	**ft/min** Feet per Minute 每分鐘幾尺
7	Line Speed Meter < **yd/min** >	**yd/min** Yard per Minute 每分鐘幾碼

Inner DIP Switch < SW I >

NO.	Function
1	ON : 4 digits **4** 位數 < **M-3X** > OFF : 5 digits **5** 位數 < **M-2X** >
2	ON : Single Preset Type 一段設定型 OFF : Dual Preset Type 二段設定型
3	ON : 20 sec Sampling Time 取樣時間 **20** 秒 OFF : 2 sec Sampling Time 取樣時間 **2** 秒
4	ON : One Decimal Point 小數一位 OFF : NO Decimal Point 無小數點

Fnner DIP Switch < SW II >

NO.	Function
1	ON : 100 cps OFF : 1K cps IN1 Response Speed Selected
2	ON : 100 cps OFF : 1K cps IN2 Response Speed Selected
3	ON : X 30 Input 30 Pulses / Revolution
4	ON : X 60 Input 60 Pulses / Revolution

Remark : Both " NO.3" and "NO.4" are ON or OFF Are One Pulse /Revolution Input.

Function of Key

(P) Selection of Setting Address

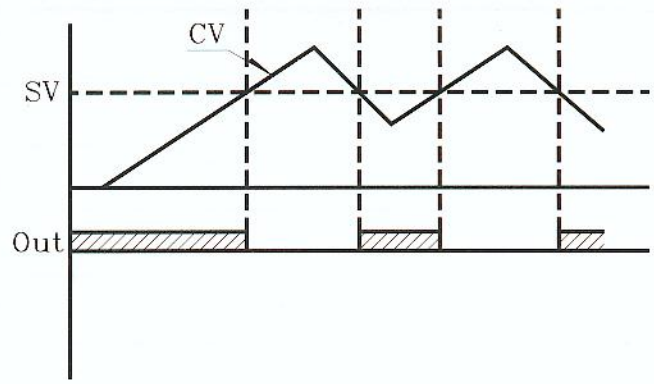
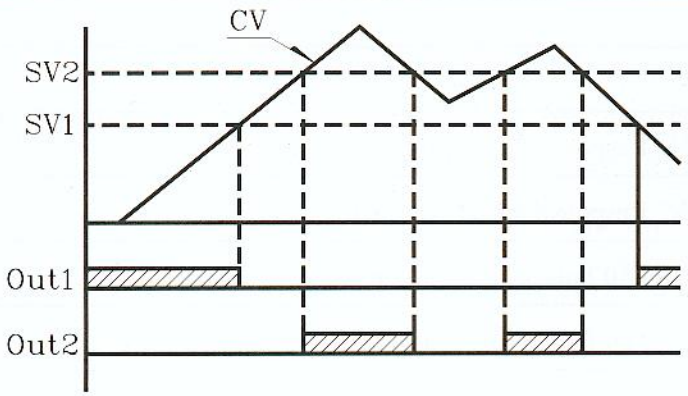
Single Preset : Tachometer / (P) Fixed
Line Speed Meter / (P) ⇄ (D)
Dual Preset : Tachometer / (P1) ⇄ (P2)
Line Speed Meter / (P1) ⇄ (D) ⇄ (P2)

(P) :Limit Setting
(D) :Diameter Setting
(P1) :Lo Limit Setting
(P2) :Hi Limit Setting

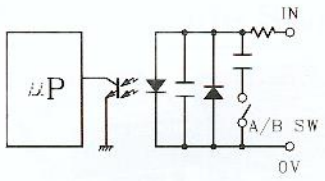
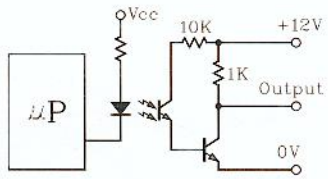
(1) (2) (3) (4) (5) (6) Numerical Key for Setting

(1) The 1st Digit Setting Key.
(2) The 2st Digit Setting Key.
(3) The 3rd Digit Setting Key.
(4) The 4th Digit Setting Key.
(5) The 5th Digit Setting Key.

Output Control

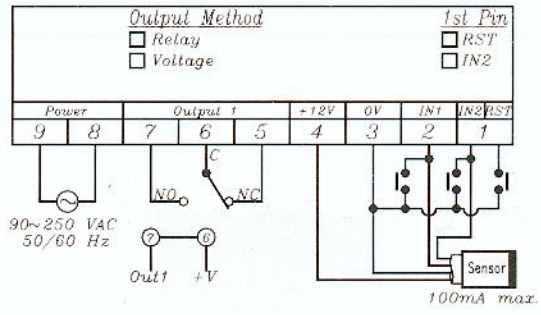
	Output Timing Chart	Remarks
Single Preset		CV < SV → Relay ON CV ≥ SV → Relay OFF
Dual Preset		CV < SV_1 → Relay I ON SV_1 ≤ CV < SV_2 → Relay I OFF CV ≥ SV_2 → Relay II ON

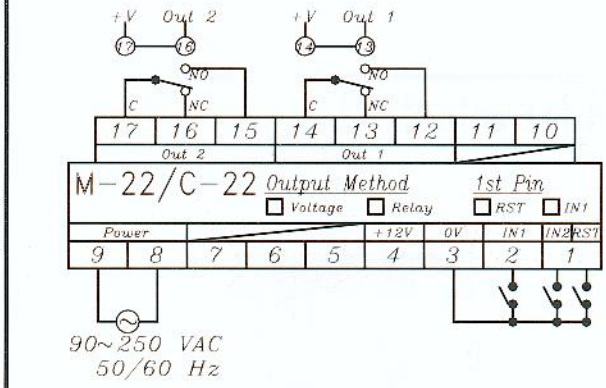
Interface Circuit

Input Circuit < IN_1 & IN_2 >	Voltage Output Circuit
	

Connection Diagram

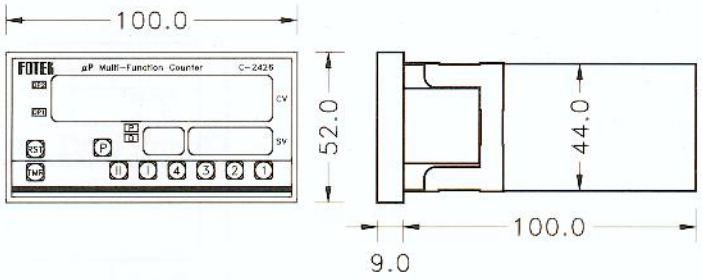
M-2X/C-2X





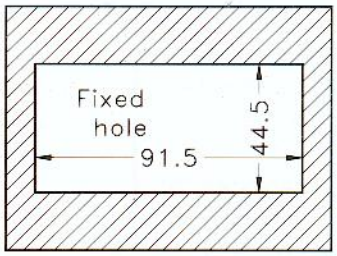
Dimension & Fixed Hole

Outline



Fixed Hole

< Thickness 1~6mm >

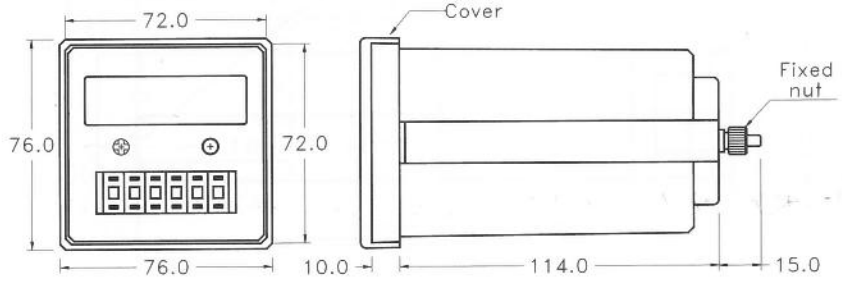


* Hi-power supply : 100mA/12VDC
* Hi-speed response time : 0.2ms
* Hi-reliability with hi-anti-noise circuit.
* Easy to test with input pilotlamp.
* Easy to longer distance monitor with large size LED display.
* Long time memory with Ni-Cd battery.

Illustration

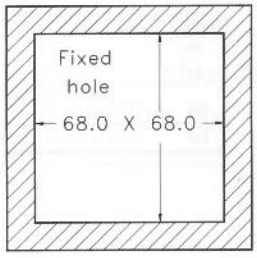
Outline & Fixed Hole

Outline



Fixed Hole

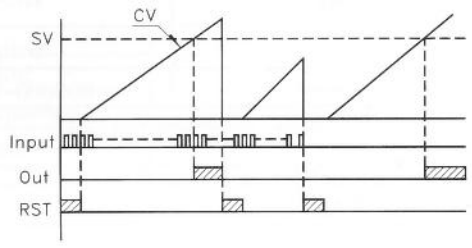
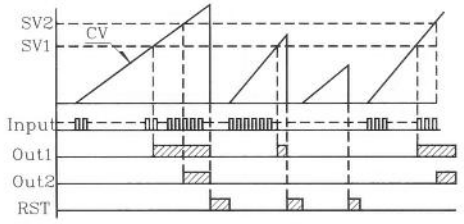
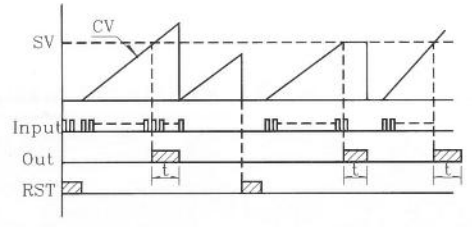
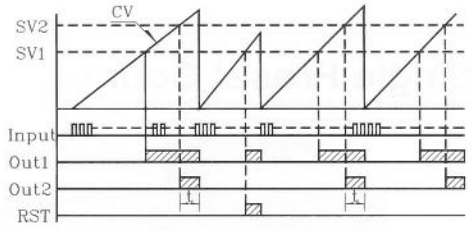
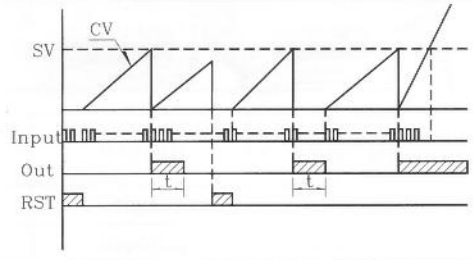
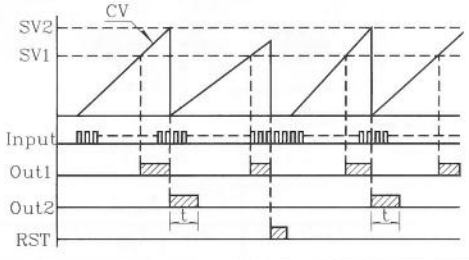
<Thickness 1~8mm>



A/B Slide Switch < Response Time Selected >

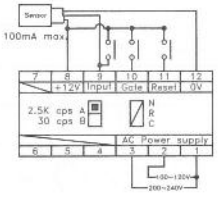
Counting	L→H	0V ≦ L < 2V , 6V ≦ H <30 / Enabling Current < Ie > < 3mA/12V
Mode " A "	2.5K CPS	Cycle Duty Ratio 1:1 , Suited for Solid State Input Such As CMOS , TTL or Transister etc.
Mode " B "	60 CPS	Response Time < 15ms , Suited for Contact input Such As Limit Sw , Relay or Reed SW etc.

N/R/C Slide Switch < Output Control Selected >

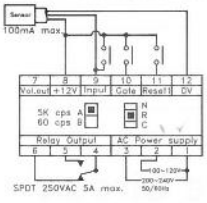
Mode	Single Preset	Dual Preset
N		
R		
C		

Connection Diagram

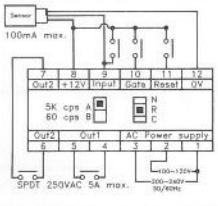
Total Counter



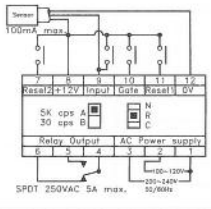
Single Preset Counter



Dual Preset Counter



Single Preset & Total Counter



HC series DIN 72 X 72 Digital Counter

Total Counter

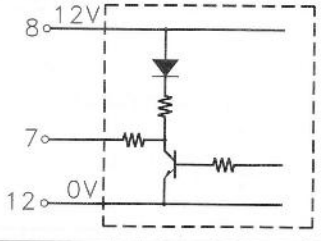
Model	HC-4T	HC-5T	HC-6T
Nr. of displayer	4 digits	5 digits	6 digits
Display range	0000~9999	00000~99999	000000~999999
Display method	0.56" 7-segment red LED	0.36" 7-segment red LED	
Response frequence	Contact input < 60 cps ; Non-contact input < 2.5K cps		
Operating voltage	110/220VAC ±20% , 50/60Hz		
Current Consumption	5VA max.		
Weight	Approx.650g.		

Single Preset Counter

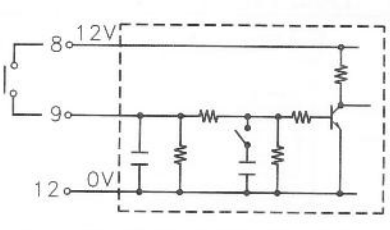
Model	HC-21P	HC-31P	HC-41P	HC-51P	HC-61P
Nr. of displayer	2 digits	3 digits	4 digits	5 digits	6 digits
Setting range	1~99	1~999	1~9999	1~99999	1~999999
Display method	0.56" 7-segment red LED		0.36" 7-segment red LED		
Response frequence	Contact input < 60 cps ; Non-contact input < 2.5K cps				
Output method	Relay output 1a / 1b , 5A/250VAC max. Voltage output NPN , 150mA max.				
Output control	N.R.C. control				
Operating voltage	110/220VAC ±20% , 50/60Hz				
Current Consumption	5VA max.				
Weight	Approx.650g.				

Interface Circuit

Voltage Output < 7th Pin >



Input < 9th Pin >



Dual Preset Counter

Model	HC-42P	HC-52P
Nr.of displayer	4 digits	5 digits
Setting range	1 st 1~9999 2md 1~9999	1st 1~99999 2nd 1~99999
Display method	0.36" 7-segment red LED	
Response frequence	High Speed<2.5K cps ; Low Speed<60 cps	
Output method	Two relays , 1a 5A/250VAC	
Output control	N.R.C control	
Operating voltage	110/220VAC±20% , 50/60Hz	
Current consumption	5VA max.	
Weight	Approx. 700g.	

Standard type : 1st preset output is controlled by 2nd preset output with N.R.C.
Optional type : 1st preset output is controlled with one shot < 0.1s > , 2nd preset output is controlled with N.R.C.

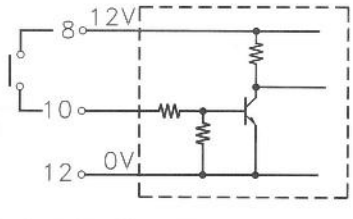
Single Preset & Total Counter

Model	HC-4P6T
Nr.of displayer	Preset 4 digits , total 6 digits
Display range	0000~9999 & 000000~999999
Setting range	1~9999
Display method	0.36" 7-segment red LED
Response frequence	High Speed<1K cps ; Low Speed<60 cps
Output method	Relays
Output control	N.R.C control
Operating voltage	110/220VAC±20% , 50/60Hz
Current consumption	5VA max.
Weight	Approx. 700g.

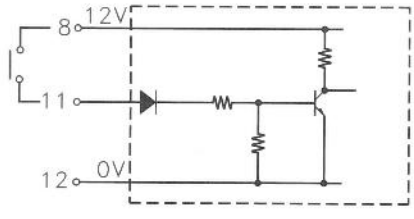
Standard type : The total Counter is synchronously Counting with the preset counter.
Optional type : The total Counter Counts when preset counter output.<HC-4P6TA>

Interface Circuit

Gate < 10th Pin >



Reset < 11th Pin >



AV/DV series

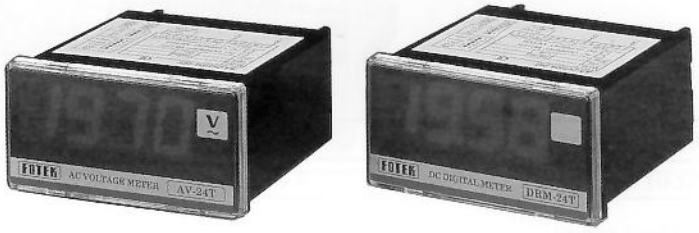
DIN 48X96S AC / DC VOLTAGE METER

☆ Dual Slope A/D Converter,
Accuracy Less Than 0.2% of F.S.

☆ Large Size LED Display,
Easy To Monitor.

☆ Amplification, $10^{\circ} \sim 10^{4}$, Selectable By DIP Switch.

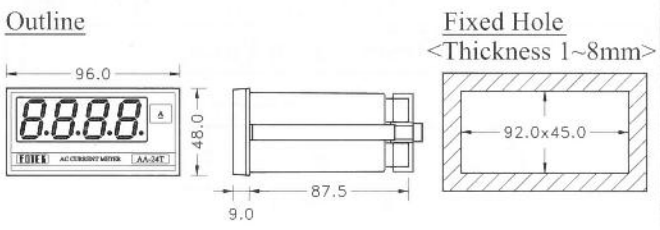
☆ Digital Scale Meter, ARM-24T Suited To Display The RPM of Inverter or Generater.



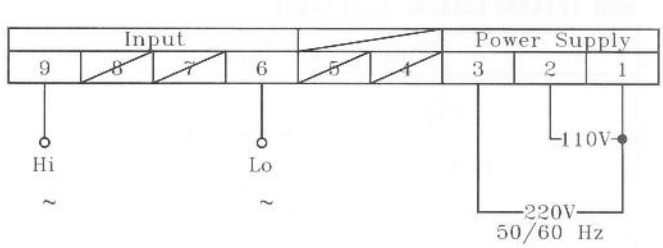
Specification

Type	AC Voltage Meter	DC Voltage Meter	Digital Scale Meter	
Model	**AV-24T**	**DV-24T**	**ARM-24T**	**DRM-24T**
Measuring Voltage	AC Voltage	DC Voltage	AC Voltae	DC Voltage
Measuring Range	400V max.			
Power Supply	AC 110V/220V 50/60Hz 5VA max.			
Display Range	1999			
Display Method	25.4 mm 7-Segment Red LED			
Converting Method	Dual Slope A/D Converter			
Accuracy	± 0.2% of F.S.			
Response Time	1 Sec			
Dielectric Strength	2.5KV/1 min.			
Insulation Strength	100MΩ/500VDC			
Circumstance	-20℃ ~+60℃, 35%~85%RH			
Weight	310g			

Dimension



Connection Diagram



Illumination

SW-I

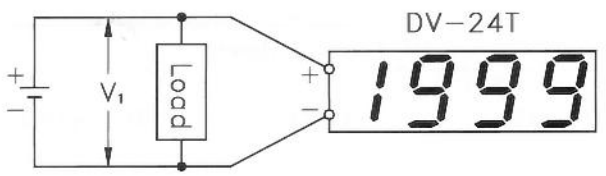
Display Range	NO. of SW-I 1	2	3	4	5	Ampli-fication
199.9mV	ON	×	×	×	×	10^4
1.999 V	×	ON	×	×	×	10^3
19.99 V	×	×	ON	×	×	10^2
199.9 V	×	×	×	ON	×	10^1
1999 V	×	×	×	×	ON	10^0

SW-II

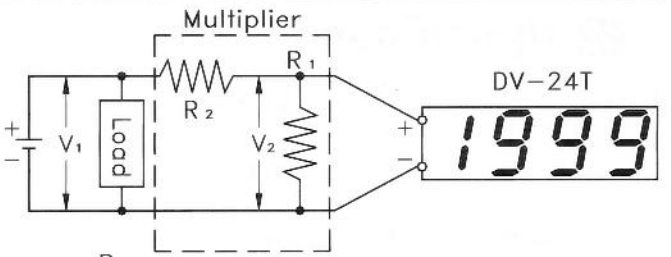
Decimal Point	NO. of SW-II 1	2	3	Decimal Point Selecting Is
1	×		ON	Independent On
2	×	ON	×	The Amplification.
3	ON		×	

How To Measure DC Voltage

Voltage <V1> < 400VDC



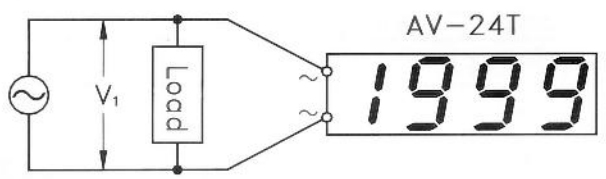
Voltage <V1> > 400VDC



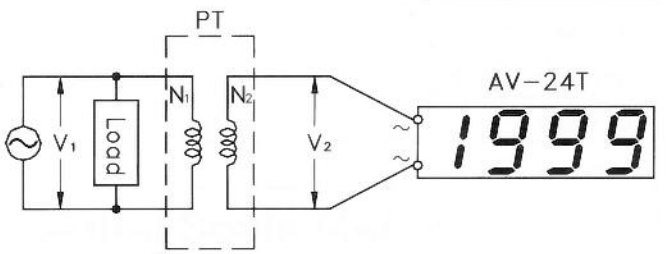
$$V_2 = \frac{R_1}{R_1 + R_2} \times V_1$$

How To Measure AC Voltage

Voltage <V1> < 400V rms



Voltage <V1> > 400V rms

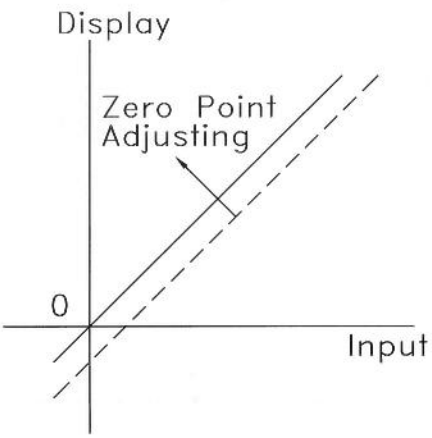


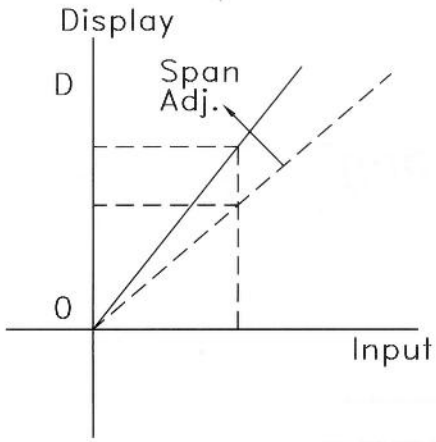
$$V_2 = \frac{N_2}{N_1} \times V_1$$

How To Apply Voltage Meter To Digital Scale Meter

Amplification & Decimal Point Selecting → Zero Point Adjusting → Span Adjusting

SW-I & SW-II Selecting





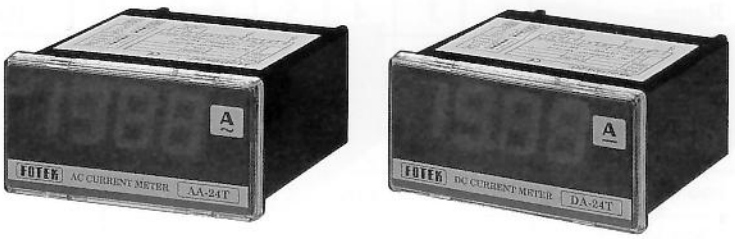
AA/DA series DIN 48X96 AC / DC CURRENT METER

☆ Dual Slope A/D Converter,
Accuracy Less Than 0.2% of F.S.

☆ Large LED Display, 25.4 mm,
Easy To Monitor.

☆ Input 4 ~ 20 mA, To Measure
Moisture, Temperature or Pressure.

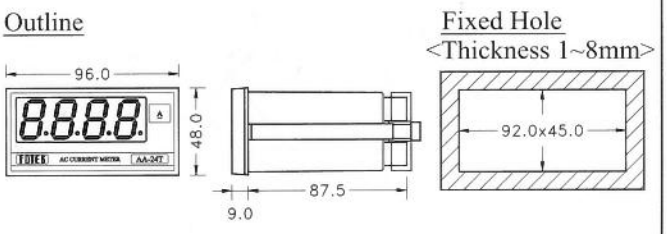
☆ Easy To Measure High Current
With CT.



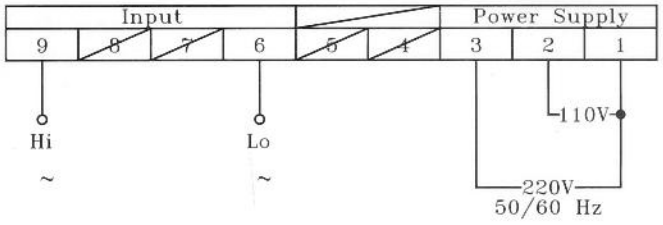
Specification

Type	AC Current Meter		DC Current Meter		
Model	**AA-24T**	**AA-24T-1**	**DA-24T**	**DA-24T-1**	**DA-24T0-2**
Measuring Range	0~5A	0~200mA	0~5A	0~200mA	4~20mA
Input Voltage	AC Voltage		DC Voltage		
Power Supply	AC 110V/220V 50/60Hz 5VA max.				
Display Range	1999				
Display Method	25.4 mm 7-Segment Red LED				
Converting Method	Dual Slope A/D Converter				
Accuracy	± 0.2% of F.S.				
Response Time	2 Sec				
Dielectric Strength	2.5KV/1 min.				
Insulation Strength	100MΩ/500VDC				
Circumstance	-20℃ ~+60℃, 35%~85%RH				
Weight	310g				

Dimension



Connection Diagram



Illustration

SW - 1

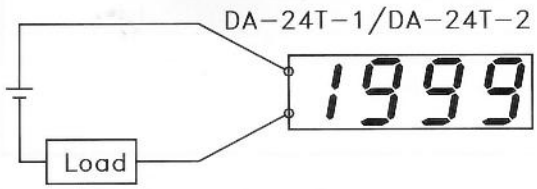
Input Range Max.	NO. of SW-1					Input Impedance
	1	2	3	4	5	
1.999mA	ON	×	×	×	ON	100 Ω
19.99mA	×	ON	×	×	ON	10 Ω
199.9mA	×	×	ON	×	ON	1 Ω
5.0 A	×	×	×	△	△	0.1 Ω
Remarks	"△" Is Optioned, ON or OFF Is Dependent On The Amplification					

SW - 2

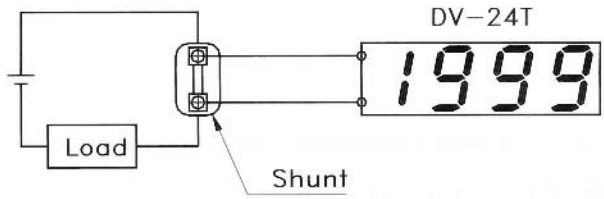
Decimal Point	NO. of SW-2			Decimal Point Selecting Is Independent ON The Amplification.
	1	2	3	
1	×	×	ON	
2	×	ON	×	
3	ON	×	×	

How To Measure DC Current

Current < 200mA

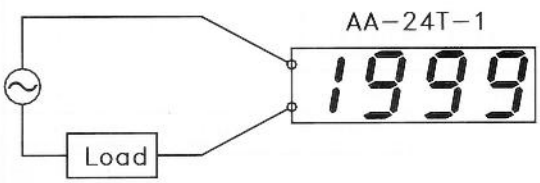


Current > 200mA

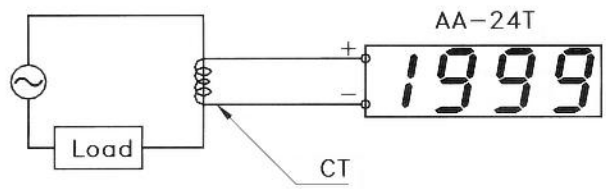


How To Measure AC Current

Current < 200mA



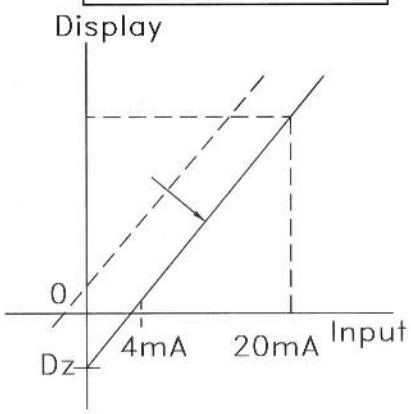
Current > 200mA

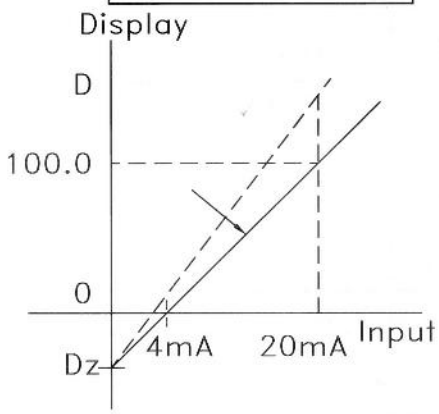


How To Apply Current Meter To Digital Scale Meter

Amplification & Decimal Point Selecting → Zero Point or Offset Adjusting → Span Adjusting

SW-I & SW-II Selecting





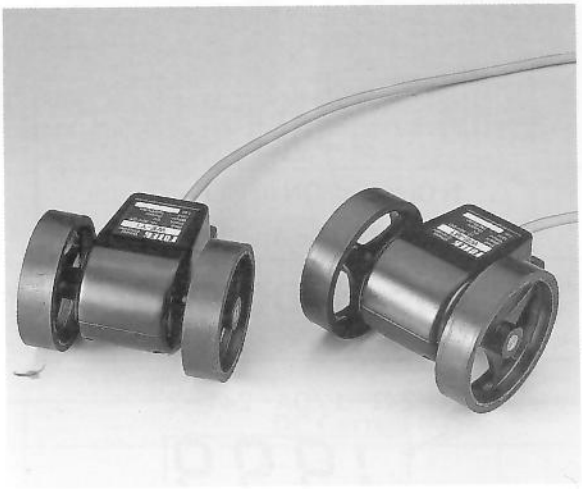
Ex. Input 4~20mA，Full Scale 100.0

Dz = - 4 X 1000 / (20 - 4) = - 250 < After Opening The Input Circuit，To Adjust The Zero Trimmer >

D = 100.0 < When The Input Current = 20 mA，To Adjust The Span Trimmer >

WE series Wheel Type Length Encoder

* High Response Freguency : 10K HZ
* High Speed of Revolution : 6K RPM
* Voltage & Current Output With NPN + PNP Output
* High Reliability With Anti-Noise Circuit
* Multi-Measuring Unit / Pulse
  1.0mm , 0.01m , 0.1m , 1m ,
  0.001yd , 0.01yd , 0.1yd & 1yd
* Model of Two Phase Output :
  WE-M2T , WE-M3T , WE-M4T
  WE-Y2T , WE-Y3T , WE-Y4T

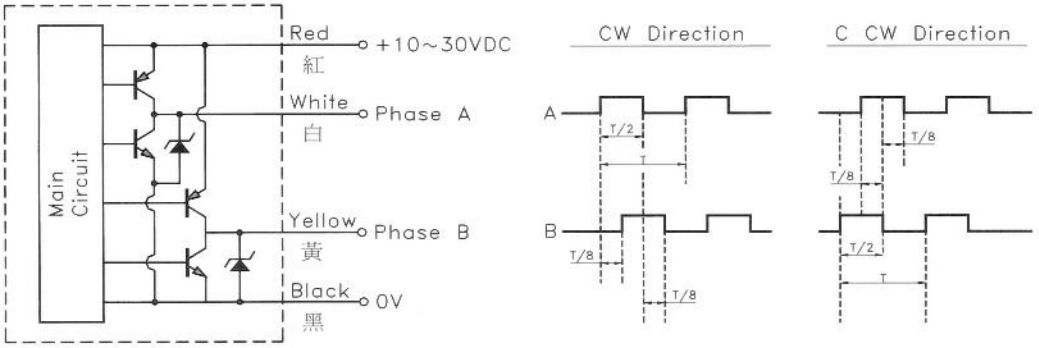


Specification

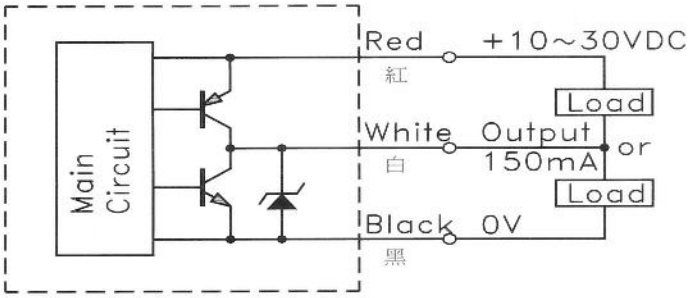
Type	Meter Wheel				Yard Wheel		
Model	WE-M1	WE-M2	WE-M3	WE-M4T	WE-Y1	WE-Y2	WE-Y3
Unit / Pulse	1m	0.1m	0.01m	1.0mm	1yd	0.1yd	0.01yd
PPR	0.2 PPR	2 PPR	20 PPR	200 PPR	0.2 PPR	2 PPR	20 PPR
Output Phase	Single or Two phase are Available						
Operating Voltage	10~30 VDC						
Current Consumption	30 mA max.						
Output Method	NPN + PNP						
Output Current	150mA max.						
Residual Voltage	0.1V max.						
Leakage Current	0.1 mA max.						
Rprotection Method	Polarity Reversed & Over Load Protection						
Connection Method	2m Cable						
Response Frequence	2K HZ			10K HZ	2K HZ		
RPM max.	6K RPM			3K RPM	6K RPM		
Insulation Resistance	Over 50MΩ /500VDC						
Dielectric Strength	Over 2.5KV						
Circumstance	-20°C ~ +60°C ; 35°C ~ 85°C						
Protection Class	IP-65						
Weight	Appr.525g				Appr.510g		

Output Circuit & Connection Diagram

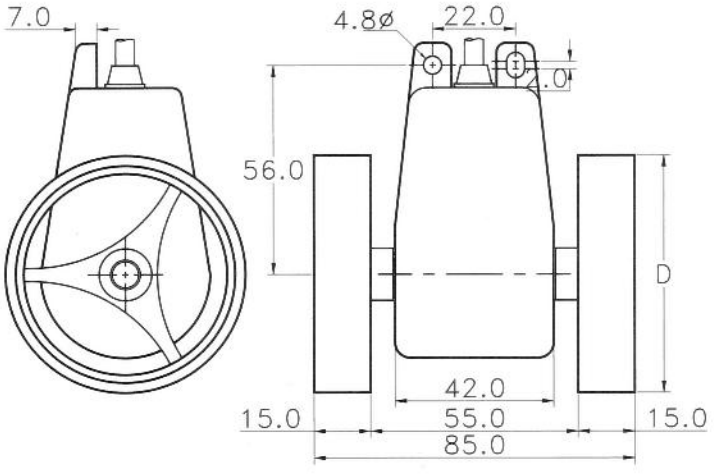
Two Phase



Single Phase



Dimension



Meter Wheel : D = 63.69 mm

Yard Wheel : D = 58.24 mm

Unit : mm

量產化、標準化、製造世界標準電控器材。
先進技術、嚴格品管，提供最佳品質保證。

To Manufacture The World-Standard Controls
By Mass-Producing & Standardizing

To Offer Excellent Quality Assurance
By Advanced Manufacture Technology &
Strict Total Auality Control

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