

5位數微電腦型計數器,24x48mm(Low Power) (5 DIGIT MICROPROCESS COUNTER,24x48mm(Low Power)

**MODEL
MC24**



■特點(FEATURES)

- 最高輸入頻率10KHz(Accepts input rates up to 10KHz)
- 四種輸入模式可選擇(加算,減算,加減算,90度相位差加減算)
(Four counting modes Up,Down,Up/Down, quadrature can be modified)
- 90度相位差加減算具有提高解析度4倍功能 (Quadrature sensing up to 4 times resolution)
- 輸入脈波具有預設刻度功能(Input scaling multiplied 0.0001 to 9.9999 can be modified)
- 尺寸小(24x48x48.5mm),穩定性高(Dimension small (24x48x48.5mm) and High stability)
- 分離式端子,配線容易(Discrete terminal,connector easy)
- CE 認證(CE EMC certification)

1:MODEL:MC24-□ □ □ (選購型號)

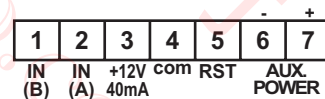
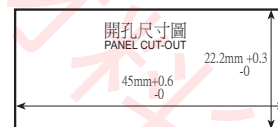
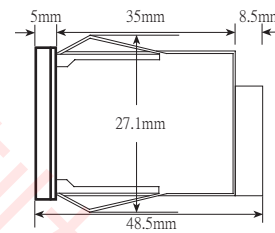
NO	Input Type (Exciting)	NO	Input Rates	NO	Aux.Power	NO	Aux.Power
A	Pulse (TTL) (DC5V)	1	50 pulse/sec	A	DC5V(Non-isolating)	E	AC/DC20~260V (Isolating)
B	Pulse (NPN) (DC12V)	2	10K pulse/sec	B	DC5V(Isolating)		
C	Pulse (PNP) (DC12V)		1:Contact input 2:Non-contact input	C	DC12V(Non-isolating)		•DC Power ±10% •Less 0.75VA for input
O	SPECIFIED			D	DC12V(Isolating)		

2:SPECIFICATION (主要規格)

- Count input type (脈波輸入型式) : Jump-pin selectable current sourcing(NPN) or current sinking (PNP)
- Count input trigger levels (脈波觸發電位) : High level: $V_{IH}=4\sim30V$ (Pulse)
Low level: $V_{IL}=0\sim2V$ (Pulse)
- Max.count rates (最高輸入頻率) : <10KHz (up,down,up/down mode)
<5KHz (quadrature mode)
- Readout (compare)rang (顯示值範圍) : -19999 to 99999 digit
- Reset type (復歸方式) : Manual or external
- Reset input signal width (復歸輸入信號寬度) : >20ms.
- Display (顯示幕) : Brigh Red LEDs high 8.6mm (0.338")
- Parameter setting (參數設方式) : Touch switches
- Sensor power supply (感應器電源) : 5VDC±10%(<40mA)
12VDC±10%(<40mA)
- Memory mode (記憶方式) : Non-volatile E² PROM memory
- Insulation resistance (絕緣阻抗) : >100Mohm with 500Vdc (input/power)
- Dielectric strength (絕緣耐壓能力) : 1.0KVac/1 min. (input/power)
- Operating condition (使用環境條件) : 0~50°C (20 to 90% RH non-condensed)
- Storage condition (存放環境條件) : 0~70°C (20 to 90% RH non-condensed)
- Outside dimension (外型尺寸) : 24x48x48.5mm
- Case material (外殼材料) : ABS
- CE EMC Certification (CE認證) : EN 55022:1998/A1:2000 Class A
EN 61000-3-2:2000
EN 61000-3-3:1995/A1:2001
EN 55024:1998/A1:2001

3:OUTSIDE DIMENSION AND CONNECTION DIAGRAM

(外型尺寸與開孔尺寸與配線圖)



5位數微電腦型計數器 (24x48mm) (5 DIGIT MICROPROCESS COUNTER, 24x48mm)

**MODEL
MCS**



■特點(FEATURES)

- 最高輸入頻率10KHz(Accepts input rates up to 10KHz)
- 四種輸入模式可選擇(加算,減算,加減算,90度相位差加減算)
(Four counting modes Up,Down,Up/Down, quadrature can be modified)
- 90度相位差加減算具有提高解析度4倍功能 (Quadrature sensing up to 4 times resolution)
- 輸入脈波具有預設刻度功能(Input scaling multiplied 0.00001 to 9.99999 can be modified)
- 計數暫時停止功能(Count inhibit function(GATE control))
- 2組警報功能(Three alarm function)(optional)
- 16BIT 類比輸出功能(15 bit DAC analog output function)(optional)
- 數位RS-485界面(Digit RS-485 interface function)(optional)

1:MODEL:MCS-□ □ □ - □ □ □

(選購型號)

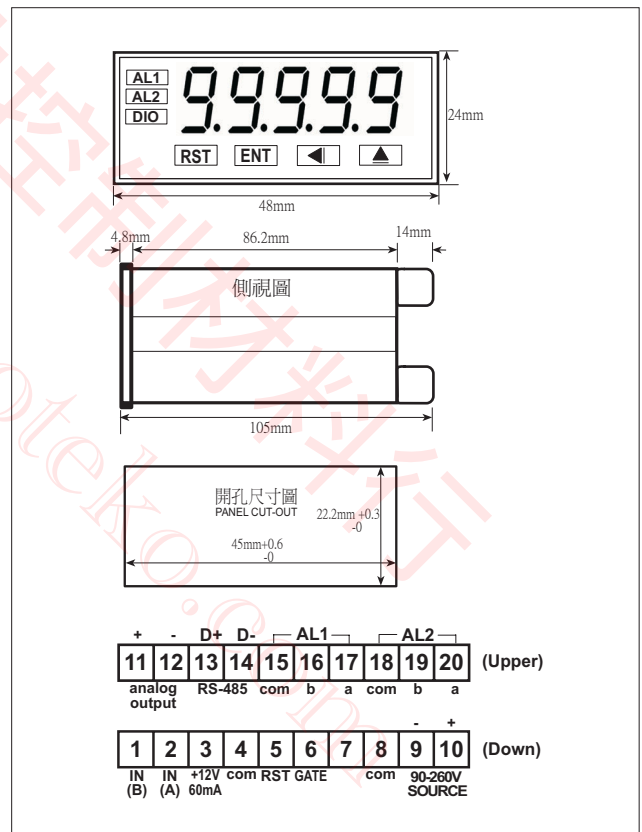
NO	Input Type	NO	Input Rates	NO	Alarm Output	NO	Analog output	NO	RS-485	NO	Aux.Power
A	Pulse (TTL) (5V)	1	50 pulse/sec	0	None	N	None	N	None	A	AC/DC18~60V
B	Pulse (NPN) (12V)	2	10000 pulse/sec	1	One	I	DC4~20mA	Y	RS-485	B	AC/DC90~260V
C	Pulse (PNP) (12V)	1:Contact input 2:Non-contact input		2	Two	V	DC0~10V	•Modbus mode •256 modes on bus		•Less 4VA for AC/DC input	
O	SPECIFIED										

2:SPECIFICATION (主要規格)

- Count input type : Jump-pin selectable current sourcing(NPN) or current sinking (PNP)
- Count input trigger levels : HI bias (CMOS) (V_{IH}=7.5V, V_{IL}=5.5V)
LO bias (TTL) (V_{IH}=3.7V, V_{IL}=2.0V)
- Max.count rates : <10KHz (up,down,up/down mode)
<3KHz (quadrature mode)
- Readout (compare)rang : -19999 to 999999
(顯示值範圍)
- Output hold time : 0.1 to 99.9 second adjustable
(輸出動作時間)
- Output reset type : Manual(N) or automatic (R or C) can be modified
(輸出復歸方式)
- Relay contact output : AC 250V-2.5A, DC 30V-5A
(繼電器容量)
- Analog output resolution : 16 bit DAC
(類比輸出解析度)
- Response time : < 1/f+10ms(0~90%)
(輸出反應速度)
- Output drive capability : < 10mA for voltage mode
< 10V for current mode
(輸出負載能力)
- Output ripple (p-p) : < 0.1% F.S.
(輸出之漣波)
- RS-485 adress : "01"~"FF"(0~255)
(通訊位址)
- RS-485 baud rate : 19200/9600/4800/2400 selective
(傳輸速度)
- RS-485 protocol : Modbus RTU mode
(通信協議)
- Display : Red high efficiency LEDs high 10.16mm (0.4")
(顯示幕)
- Parameter setting : Touch switches
(參數設方式)
- Sensor power supply : 12VDC±3%(<60mA)
(感應器電源)
- Memory mode : Non-volatile E² PROM memory
(記憶方式)
- Dielectric strength : 2KVac/1 min. (input/output/power)
1600Vdc (input/output)
(絕緣耐壓能力)
- Operating condition : 0~50°C (20 to 90% RH non-condensed)
(使用環境條件)
- Storage condition : 0~70°C (20 to 90% RH non-condensed)
(存放環境條件)
- CE EMC Certification : EN 55022:1998/A1:2000 Class A
EN 61000-3-2:2000
EN 61000-3-3:1995/A1:2001
EN 55024:1998/A1:2001
(CE認證)

3:OUTSIDE DIMENSION AND CONNECTION DIAGRAM

(外型尺寸與開孔尺寸與配線圖)



5位數微電腦型計數器(顯示幕0.8") (5 DIGIT MICROPROCESS COUNTER)(DISPLAY 0.8")

**MODEL
MMX-C**



■特點(FEATURES)

- 最高輸入頻率 10KHz(Accepts input rates up to 10KHz)
- 計數速度50/10000脈波/秒可選擇(Accept input rates 50 or 10000 CPS can be modified)
- 四種輸入模式可選擇(加算,減算,加減算,90度相位差加減算)
(Four counting modes Up,Down,Up/Down, quadrature can be modified)
- 90度相位差加減算具有提高解析度4倍功能 (Quadrature sensing up to 4 times resolution)
- 輸入脈波具有預設刻度功能(Input scaling multiplied 0.0001 to 9.9999 can be modified)
- 1組警報功能(One alarm function)(optional)
- 尺寸小,穩定性高(Dimension small and High stability)

1:MODEL:MMX-C

NO	Input Type	NO	Input Rates	NO	Alarm Output
A	Pulse (TTL) (5V)	1	50 pulse/sec	0	None
B	Pulse (NPN) (12V)	2	10000 pulse/sec	1	One
C	Pulse (PNP) (12V)				
O	SPECIFIED				

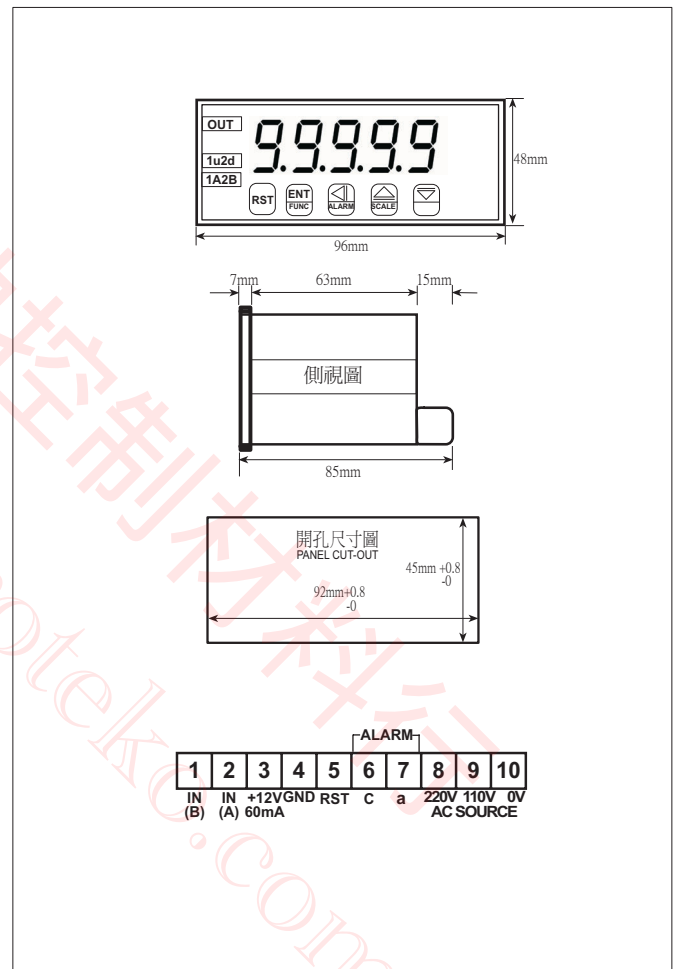
1:Contact input
 2:Non-contact input
 *Relay contact (AC250V-10A,DC30V-10A)

2:SPECIFICATION (主要規格)

- Aux.power supper (輔助電源) : AC110/220V±20%(50/60Hz)
- Count input type (脈波輸入型式) : Switch selectable current sourcing(NPN) or current sinking (PNP)
- Count input trigger levels (脈波觸發電位) : HI bias (CMOS) (V_{IH}=7.5V, V_{IL}=5.5V) LO bias (TTL) (V_{IH}=3.7V, V_{IL}=2.0V)
- Max.count rates (最高輸入頻率) : <10KHz (up,down,up/down mode) <5KHz (quadrature mode)
- Readout (compare)rang (顯示值範圍) : -19999~99999
- Output hold time (輸出動作時間) : 0.1 to 99.9 second adjustable
- Output reset type (輸出復歸方式) : Manual(N) or automatic (R or C) can be modified
- Relay contact output (繼電器容量) : AC 250V-10A, DC 30V-10A
- Display (顯示幕) : Red high efficiency LEDs high 20.32mm (0.8")
- Parameter setting (參數設方式) : Touch switches
- Sensor power supply (感應器電源) : 12VDC±3%(<60mA)
- Memory mode (記憶方式) : Non-volatile E² PROM memory
- Dielectric strength (絕緣耐壓能力) : 2KVac/1 min. (input/output/power) 1600Vdc (input/output)
- Operating condition (使用環境條件) : 0~50°C (20 to 90% RH non-condensed)
- Storage condition (存放環境條件) : 0~70°C (20 to 90% RH non-condensed)
- CE EMC Certification (E認證) : EN 55022:1998/A1:2000 Class A
EN 61000-3-2:2000
EN 61000-3-3:1995/A1:2001
EN 55024:1998/A1:2001

3:OUTSIDE DIMENSION AND CONNECTION DIAGRAM

(外型尺寸與開孔尺寸與配線圖)



6位數微電腦型計數器 (48x96mm) (6 DIGIT MICROPROCESS COUNTER, 48x96mm)

**MODEL
MC**



■特點(FEATURES)

- 最高輸入頻率10KHz(Accepts input rates up to 10KHz)
- 計數速度50/10000脈波/秒可選擇(Accept input rates 50 or 10000 CPS can be modified)
- 四種輸入模式可選擇(加算,減算,加減算,90度相位差加減算)
(Four counting modes Up,Down,Up/Down, quadrature can be modified)
- 90度相位差加減算具有提高解析度4倍功能 (Quadrature sensing up to 4 times resolution)
- 輸入脈波具有預設刻度功能(Input scaling multiplied 0.00001 to 9.99999 can be modified)
- 計數暫時停止功能(Count inhibit function(GATE control))
- 3 組警報功能(Three alarm function)(optional)
- 15BIT 類比輸出功能(15 bit DAC analog output function)(optional)
- 數位RS-485界面(Digit RS-485 interface function)(optional)

1:MODEL:MC- - (選購型號)

NO	Input Type	NO	Input Rates	NO	Alarm Output	NO	Analog output	NO	RS-485	NO	Aux.POWER
A	Pulse (TTL) (5V)	1	50 pulse/sec	0	None	N	None	N	None	A	AC/DC18~60V
B	Pulse (NPN) (12V)	2	10000 pulse/sec	1	One	I	DC4~20mA	Y	RS-485	B	AC/DC90~260V
C	Pulse (PNP) (12V)	1:Contact input 2:Non-contact input		2	Two	V	DC0~10V	•Modbus mode		•Less 4VA for AC/DC input	
O	SPECIFIED			3	Two(AL2=Pre-warm)	R	SPECIFIED				
				4	Three(HI,Go,Lo)	T	•DC4~20mA				

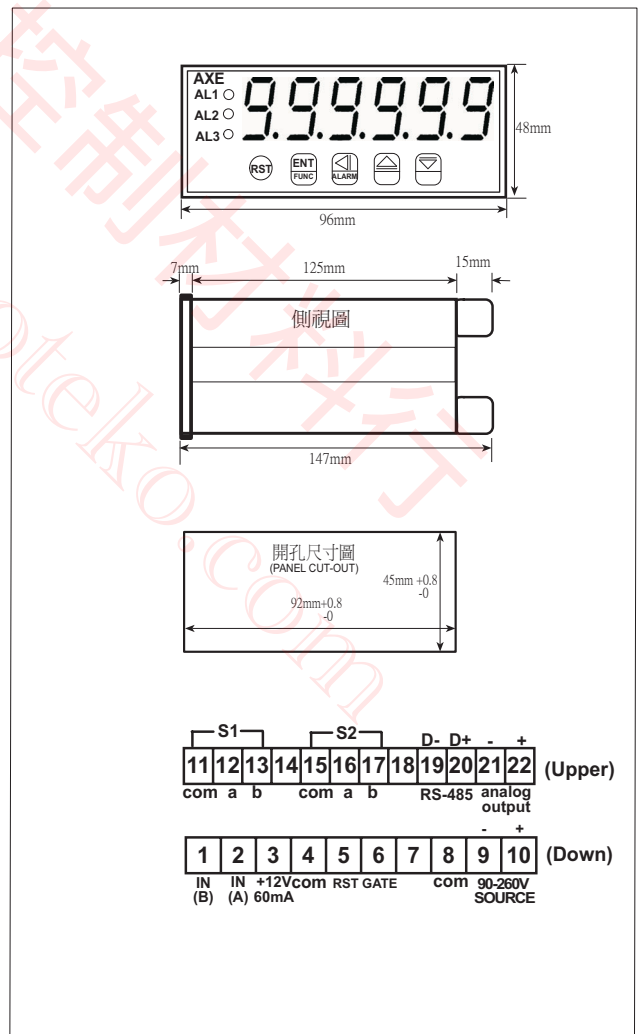
*Two-wire transmitter (Exciting voltage DC10~36V)

2:SPECIFICATION (主要規格)

- Count input type (脈波輸入型式) : Jump-pin selectable current sourcing(NPN) or current sinking (PNP)
- Count input trigger levels (脈波觸發電位) : HI bias (CMOS) (V_{IH}=7.5V, V_{IL}=5.5V)
LO bias (TTL) (V_{IH}=3.7V, V_{IL}=2.0V)
- Max.count rates (最高輸入頻率) : <10KHz (up,down,up/down mode)
<3KHz (quadrature mode)
- Readout (compare)rang (顯示值範圍) : -199999 to 999999
- Output hold time (輸出動作時間) : 0.1 to 99.9 second adjustable
- Output reset type (輸出復歸方式) : Manual(N) or automatic (R or C) can be modified
- Relay contact output (繼電器容量) : AC 250V-5A, DC 30V-7A
- Analog output resolution (類比輸出解析度) : 15 bit DAC
- Response time (輸出反應速度) : < 1/f+10ms(0~90%)
- Output drive capability (輸出負載能力) : < 10mA for voltage mode
< 10V for current mode
<[(V+)-7.5V]/20mA for two-wire mode
- Output ripple (p-p) (輸出之漣波) : < 0.1% F.S.
- RS-485 address (通訊位址) : "01"~"FF"(0~255)
- RS-485 baud rate (傳輸速度) : 19200/9600/4800/2400 selective
- RS-485 protocol (通信協議) : Modbus RTU mode
- Display (顯示幕) : Red high efficiency LEDs high 14.22mm (0.56")
- Parameter setting (參數設方式) : Touch switches
- Sensor power supply (感應器電源) : 12VDC±3%(<60mA)
- Memory mode (記憶方式) : Non-volatile E² PROM memory
- Dielectric strength (絕緣耐壓能力) : 2KVac/1 min. (input/output/power)
160Vdc (input/output)
- Operating condition (使用環境條件) : 0~50°C (20 to 90% RH non-condensed)
- Storage condition (存放環境條件) : 0~70°C (20 to 90% RH non-condensed)
- CE EMC Certification (CE認證) : EN 55022:1998/A1:2000 Class A
EN 61000-3-2:2000
EN 61000-3-3:1995/A1:2001
EN 55024:1998/A1:2001

3:OUTSIDE DIMENSION AND CONNECTION DIAGRAM

(外型尺寸與開孔尺寸與配線圖)



6位數微電腦型計數器 (72x72mm) (6 DIGIT MICROPROCESS COUNTER, 72x72mm)

**MODEL
MC726**



■特點(FEATURES)

- 最高輸入頻率 10KHz(Accepts input rates up to 10KHz)
- 計數速度 50/10000脈波/秒可選擇(Accept input rates 50 or 10000 CPS can be modified)
- 四種輸入模式可選擇(加算,減算,加減算,90度相位差加減算)
(Four counting modes Up,Down,Up/Down, quadrature can be modified)
- 90度相位差加減算具有提高解析度4倍功能 (Quadrature sensing up to 4 times resolution)
- 輸入脈波具有預設刻度功能(Input scaling multiplied 0.00001 to 9.99999 can be modified)
- 前置量設定功能(二段設定)可選擇(Pre-warn counter function (two alarm output) can be modified)
- 數位化指撥設定操作簡易(Simulation pushwheel digit switches,easy to operate)
- 計數暫時停止功能(Count inhibit function)(GATE control)
- 3 組警報功能(Three alarm function)(optional)

1:MODEL:MC726-□ □ □ □
(選購型號)

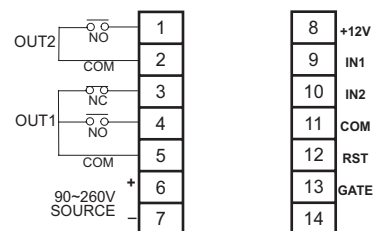
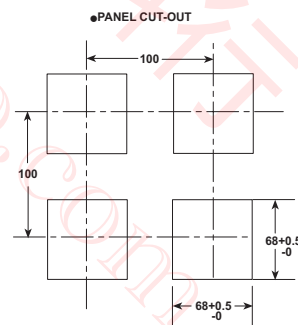
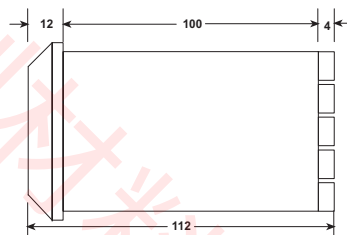
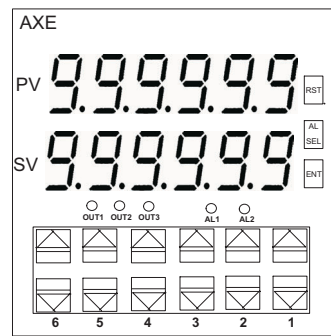
NO	Input Type	NO	Input Rates	NO	Alarm Output	NO	Aux.Power
A	Pulse (TTL) (5V)	1	50 pulse/sec	0	None	A	AC/DC18-60V
B	Pulse (NPN) (12V)	2	10000 pulse/sec	1	One	B	AC/DC90-260V
C	Pulse (PNP) (12V)	1:Contact input 2:Non-contact input		2	Two		Less 4VA for AC/DC input
O	SPECIFIED			3	Two(AL2=Pre-warm)		
				4	Three		

2:SPECIFICATION (主要規格)

- Count input type (脈波輸入型式) : Jump-pin selectable current sourcing(NPN) or current sinking (PNP)
- Count input trigger levels (脈波觸發電位) : HI bias (CMOS) (V_{IH}=7.5V, V_{IL}=5.5V)
LO bias (TTL) (V_{IH}=3.7V, V_{IL}=2.0V)
- Max.count rates (最高輸入頻率) : <10KHz (up,down,up/down mode)
<5KHz (quadrature mode)
- Output hold time (輸出動作時間) : 0.1 to 99.9 second adjustable
- Output reset type (輸出復歸方式) : Manual(N) or automatic (R or C) can be modified
- Relay contact output (繼電器容量) : AC 250V-5A, DC 30V-7A
- Readout (compare)rang (顯示值範圍) : -199999 to 999999
- Display (顯示幕) : Red high efficiency LEDs high 9.2mm (.36")
- Parameter setting (參數設方式) : Touch switches
- Sensor power supply (感應器電源) : 12VDC +/-3%(<60mA)
- Memory mode (記憶方式) : Non-volatile E² PROM memory
- Dielectric strength (絕緣耐壓能力) : 2KVac/1 min. (input/output/power)
1600Vdc (input/output)
- Operating condition (使用環境條件) : 0-50°C (20 to 90% RH non-condensed)
- Storage condition (存放環境條件) : 0-70°C (20 to 90% RH non-condensed)
- CE EMC Certification (CE認證) : EN 55022:1998/A1:2000 Class A
EN 61000-3-2:2000
EN 61000-3-3:1995/A1:2001
EN 55024:1998/A1:2001

3:OUTSIDE DIMENSION AND CONNECTION DIAGRAM

(外型尺寸與開孔尺寸與配線圖)



6位數自動定位控制計數器(72x72mm) (6 DIGIT AUTOMATION ORIENT CONTROLLER COUNTER,72x72mm)

MODEL MCO726



■特點(FEATURES)

- 顯示範圍-199999至999999位數(Readout range from -199999 to 999999)
- 最高輸入頻率 5KHz(Accepts input rates up to 5KHz)
- 90度相位差加減算具有提高解析度4倍功能 (Quadrature sensing up to 4 times resolution)
- 輸入脈波具有預設刻度功能(Input scaling multiplied 0.00001 to 9.99999 can be modified)
- 定位基準值可任意設定(Orient counter value can be modified)
- 比較磁滯值可任意設定(Compare hysteresis can be modified)
- 數位化指撥設定操作簡易(Simulation pushwheel digit switches,easy to operate)
- 三組繼電器輸出功能(Three relay output function (A>B,A=B,A<B))

1:MODEL:MCO726-□ □ (選購型號)

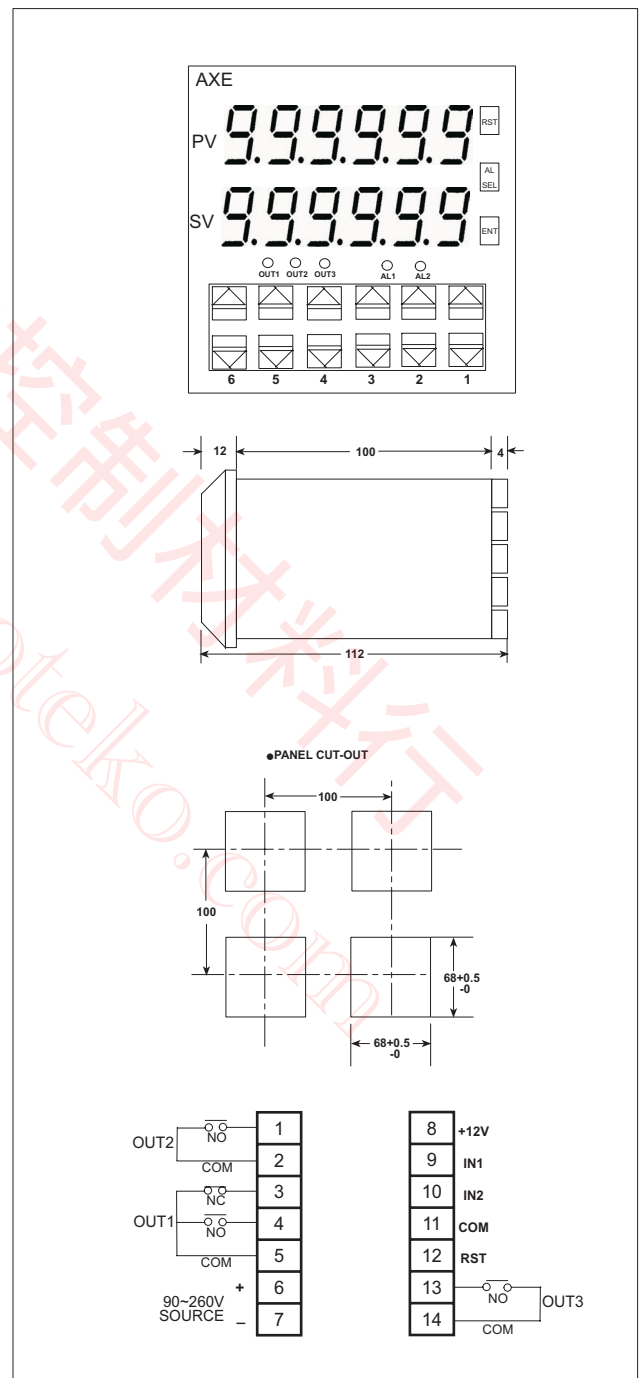
NO	Input Type	NO	Aux.Powe
A	Pulse (TTL) (5V)	A	AC/DC18~60V
B	Pulse (NPN) (12V)	B	AC/DC90~260V
C	Pulse (PNP) (12V)		•Less 4VA for AC/DC input

2:SPECIFICATION (主要規格)

- Count input type : Jump-pin selectable current sourcing(NPN) or current sinking (PNP)
(脈波輸入型式)
- Count input trigger levels : HI bias (CMOS) ($V_{IH}=7.5V, V_{IL}=5.5V$)
(脈波觸發電位) LO bias (TTL) ($V_{IH}=3.7V, V_{IL}=2.0V$)
- Max.count rates : <5KHz
(最高輸入頻率)
- Readout (compare) range : -199999 to 999999
(顯示值範圍)
- Orient counter range : -199999 to 999999 second adjustable
(定位值範圍)
- Compare hysteresis range : 0 to 9999 adjustable
(比較磁滯範圍)
- Relay contact output : AC 250V-5A, DC 30V-7A
(繼電器容量)
- Display : Red high efficiency LEDs high 9.2mm (0.36")
(顯示幕)
- Parameter setting : Touch switches
(參數設方式)
- Sensor power supply : 12VDC \pm 3%(<60mA)
(感應器電源)
- Memory mode : Non-volatile E² PROM memory
(記憶方式)
- Dielectric strength : 2KVac/1 min. (input/output/power)
(絕緣耐壓能力) 1600Vdc (input/output)
- Operating condition : 0~50°C (20 to 90% RH non-condensed)
(使用環境條件)
- Storage condition : 0~70°C (20 to 90% RH non-condensed)
(存放環境條件)
- CE EMC Certification : EN 55022:1998/A1:2000 Class A
(CE認證) EN 61000-3-2:2000
EN 61000-3-3:1995/A1:2001
EN 55024:1998/A1:2001

3:OUTSIDE DIMENSION AND CONNECTION DIAGRAM

(外型尺寸與開孔尺寸與配線圖)



4位數一段設定6位數累積計數器(72x72mm) (4 DIGITAL (ONE ALARM) & 6DIGITAL TOTALIZER COUNTER,72x72mm)

**MODEL
MCT726**



■特點(FEATURES)

- 最高輸入頻率 10KHz(Accepts input rates up to 10KHz)
- 顯示範圍 0 至9999 (一段設定) 0 至999999累積量 (Readout range from 0 to 9999(one- alarm), 0 to 999999(totalizer))
- 計數速度 50/10000脈波/秒可選擇(Accept input rates 50 or 10000 CPS can be modified)
- 輸入脈波具有預設刻度功能(Input scaling multiplied 0.001 to 9.999 can be modified)
- 累積量同步(批量)或非同步(批次)計數可選擇 (Totalizer counting modes can be modified(synchronize and un-synchronize))
- 數位化指撥設定操作簡易(Simulation pushwheel digit switches,easy to operate)
- 計數暫時停止功能(Count inhibit function(GATE control))
- 1 組警報功能(One alarm function for totalizer)(optional)

1:MODEL:MCT726-□□□□ (選購型號)

NO	Input Type	NO	Input Rates	NO	Alarm Output	NO	Aux.Power
A	Pulse (TTL) (5V)	1	50 pulse/sec	0	None(TV)	A	AC/DC18~60V
B	Pulse (NPN) (12V)	2	10000 pulse/sec	1	One(TV)	B	AC/DC90~260V
C	Pulse (PNP) (12V)	1:Contact input 2:Non-contact input		2	Two(PV)		•Less 4VA for AC/DC input
O	SPECIFIED				•Two alarm=Pre-warm		

2:SPECIFICATION (主要規格)

- Count input type (脈波輸入型式) : Jump-pin selectable current sourcing(NPN) or current sinking (PNP)
- Count input trigger levels (脈波觸發電位) : HI bias (CMOS) (V_{IH}=7.5V, V_{IL}=5.5V) LO bias (TTL) (V_{IH}=3.7V, V_{IL}=2.0V)
- Max.count rates (最高輸入頻率) : <10KHz (up,down,up/down mode)
- Readout (compare)rang (顯示值範圍) : 0 to 9999 (PV,SV) 0 to 999999 (TV)
- Display (顯示幕) : Red high efficiency LEDs high 7.0mm (0.276") (PV,SV) Red high efficiency LEDs high 9.2mm (0.36") (TV)
- Output hold time (輸出動作時間) : 0.1 to 99.9 second adjustable
- Output reset type (輸出復歸方式) : Manual(N) or automatic (R or C) can be modified
- Relay contact output (繼電器容量) : AC 250V-5A, DC 30V-7A
- Parameter setting (參數設方式) : Touch switches
- Sensor power supply (感應器電源) : 12VDC±3%(<60mA)
- Memory mode (記憶方式) : Non-volatile E² PROM memory
- Dielectric strength (絕緣耐壓能力) : 2KVac/1 min. (input/output/power) 1600Vdc (input/output)
- Operating condition (使用環境條件) : 0~50°C (20 to 90% RH non-condensed)
- Storage condition (存放環境條件) : 0~70°C (20 to 90% RH non-condensed)
- CE EMC Certification (CE認證) : EN 55022:1998/A1:2000 Class A
EN 61000-3-2:2000
EN 61000-3-3:1995/A1:2001
EN 55024:1998/A1:2001

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