

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 - Functioning 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 Frequency	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

Inner 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.

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Function of Key

P Selection of Setting Address

Single Preset : Tachometer / **P** Fixed

Line Speed Meter / **P** → **D**

Dual Preset : Tachometer / **P₁**

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.

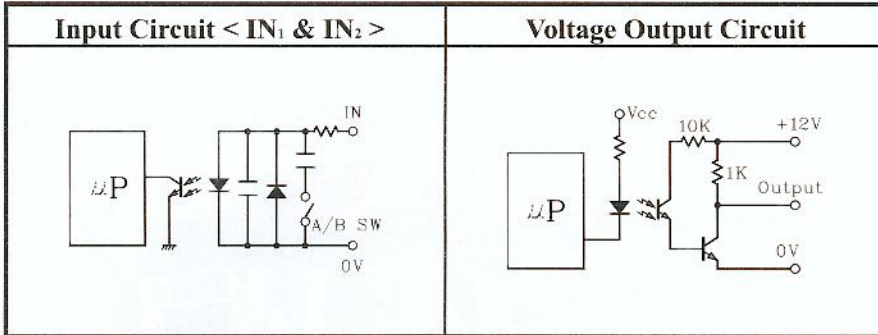
4 The 4th Digit Setting Key.

5 The 5th Digit Setting Key.

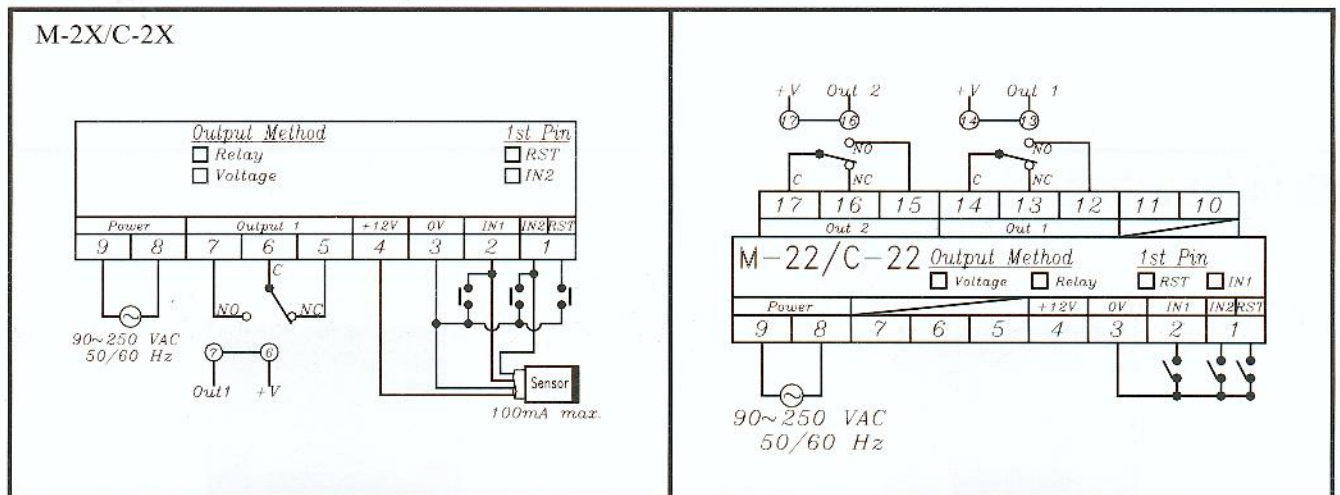
Output Control

	Output Timing Chart	Remarks
Single Preset		$CV < SV \rightarrow$ Relay ON $CV \geq SV \rightarrow$ Relay OFF
Dual Preset		$CV < SV_1 \rightarrow$ Relay I ON $SV_1 \leq CV < SV_2 \rightarrow$ Relay I OFF $CV \geq SV_2 \rightarrow$ Relay II ON

Interface Circuit



Connection Diagram



Dimension & Fixed Hole

