

# MICROPROCESS RPM & LINE-SPEED METER



## FEATURES

- Accuracy 0.01% F.S.
- Accepts input rates up to 5KHz (Optional up to 50KHz)
- Display type of RPM or line-speed can be modified
- Display unit (M/min), (y/min), (ft/min) of line-speed can be modified
- Input pulse of revolution can be modified (1~9999)
- Decimal point can be modified
- Input pulse cut off sampling time can be modified (0.1 to 99.9 second)
- Display value depend on the mean input pulse several times can be modified (1 to 99 times)

1. MODEL: PF-L(R) - ■ ■ ■ -  X=5 ( Input rate up to 5KHz ) X=50 ( Input rate up to 50KHz )  
 PF-L(R)N - ■ ■ ■ -  ( Non-rotary switches ) ( Non-line driver type )

| NO | Input Type             | NO | Sensor Power                  | NO | Aux. Power                                    |
|----|------------------------|----|-------------------------------|----|---|
| 1  | Pulse (TTL) (5V)       | A  | DC 5V ( $\leq 100\text{mA}$ ) | 0  | DC 12V  |
| 2  | Pulse (NPN) (12V)      | B  | DC 12V ( $\leq 50\text{mA}$ ) | 1  | AC 110/220V                                   |
| 3  | Pulse (PNP) (12V)      |    |                               | 2  | DC 24V  |
| 4  | AC 1-60V               |    |                               | 3  | DC 48V  |
| 5  | Line-driver RS422(5V)  |    |                               | 4  | DC 110V                                       |
| 6  | Line-driver RS422(12V) |    |                               | 5  | DC 220V                                       |
| 9  | SPECIFIED              |    |                               | 6  | AC90~260V                                     |
|    |                        |    |                               |    | • $\pm 20\%$ of rate, less 2.5VA for AC input |
|    |                        |    |                               |    | • $\pm 20\%$ of rate, less 2WATT for DC input |

## 2. Specification

- Aux. power supply : AC 110 & 220V  $\pm 20\%$  (50 or 60Hz)  $\pm 20\%$   
(Optional DC 12, 24, 48, 110, 220V AC/DC 90~260V  $\pm 10\%$ )
- Measuring accuracy : 0.01% F.S. ( $23 \pm 5^\circ\text{C}$ )
- Count input type : Switch selectable current sourcing or current sinking
- Count input trigger levels : Switch selectable  
Hi bias ( $V_{IH}=7.5\text{V}$ ,  $V_{IL}=5.5\text{V}$ ) or  
Lo bias ( $V_{IH}=3.7\text{V}$ ,  $V_{IL}=2.0\text{V}$ )
- Max. count rates : 5KHz (optional up to 50KHz)  
(50% duty cycle)
- Sampling time : 10 cycle/sec. ( $\geq 10\text{Hz}$ )  
f cycle/sec. ( $< 10\text{Hz}$ )
- Over input indication : "ovEr"
- Readout range : "0" to "99999" adjustable
- Diameter setting : 0~999mm (PF-L(R)) (rotary switches)  
0~9.9999mm (PF-L(R)N)  
(Touch switches setting)
- Parameter setting : Touch switches
- Display : Red high efficiency LEDs 14.22mm (0.56")
- Memory mode : Non-volatile EEPROM memory
- Sensor power supply : 12VDC  $\pm 10\%$  ( $\leq 50\text{mA}$ )
- Dielectric strength : 1.5KVac/1 min. (input/power)(PF-L(R))  
1.5KVac/1 min. (input/power/display)  
(PF-L(R)N)
- Operating condition : 0~50°C (20~90% RH non-condensed)
- Storage condition : 0~70°C (20~90% RH non-condensed)

## 3. Outside dimension and connection diagram

