

# MIDORI's Linear Potentiometer

## LP-FJ



Concept

Space Saving

×

Water Proof

×

Rapid  
Delivery

Future

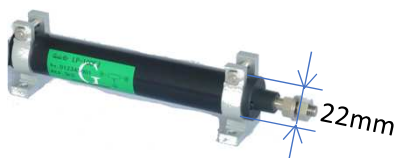
Housing  $\Phi 22$   
(Shaft  $\Phi 6$ )

IP rating : IP65

In MIDORI's  
stock

### Standard model of MIDORI's long selling Linear Potentiometer

#### Space Saving



- Housing  $\Phi 22\text{mm}$
- Shaft  $\Phi 6$

#### Water-Drip Proof



- IP65 type is available.

#### Rapid Delivery

















- MIDORI has some in stock

## MAIN APPLICATIONS

Market	User	Installed	Application
Amusement	A Robot maker	Dinosaur robot	Control for joint movement
Vehicle Equipment	A Specially equipped vehicle maker	Sprinkling vehicle	Control for valve opening position
Material handling	A Material handling maker	AGV	Detecting of lift up-down
Industrial machinery	A Molding machine maker	Injection machine	Control for position of mold
Industrial machinery	A Molding machine maker	Die casting machine	Detecting of hydraulic cylinder position

⇒For details, please refer "Usage Case" flyers.

# Finding a solution to problem by using LP-FJ

<u>Problem</u>	<u>Wish</u>	<u>MIDORI's Suggestion</u>
The Linear Potentiometers we use are bent occasionally.	 Want to use a Linear Potentiometer with higher strength shaft.	 Shaft dia. Of LP-FJ is 6mm.
The Linear Potentiometers we use are occasionally become cable break because of thin wires.	 Want to use a Linear Potentiometer with thick cable for avoiding cable break.	 LP-FJ is applied cabtyre cord.
The Linear Potentiometer we use cannot be changed mounting position.	 Want to change mounting position freely.	 LP-FJ can be changed mounting position by moving mounting foot.
The Linear Potentiometers with water-proof are quite expensive.	 The potentiometer is wanted to be used under harsh conditions such as water and dust.	 LP-FJS is IP65 and low cost.
The Linear Potentiometer we use has higher shaft friction.	 Want to do minute measurement without caring about shaft friction.	 Shaft friction of LP-FJ is 1N max.
The Linear Sensor we use is not good accuracy.	 Need a Linear Sensor with better linearity.	 Independent linearity of LP-FJ is $\pm 0.1\%$ (option).
Output of Contactless type sensors has drift by changing temperature. It could not be used our machine.	 Need stable output sensor under temperature change condition.	 Output of LP-FJ is stable ( $\pm 400\text{ppm/K}$ ) under temperature range - 25 ~ +80°C.

Please contact ;

**MIDORI PRECISIONS CO.,LTD.**

3-2-8, Shinmeidai Hamurashi,

Tokyo 205-0023, JAPAN

Tel: +81-42-554-5650

E-mail: overseas@midori.co.jp



**MIDORI PRECISIONS**  
[www.midori.co.jp](http://www.midori.co.jp)