



FH Flip-Lock Pioneer HIROSE

## Features

- Space-Saving**  
- 0.5mm Pitch, 3.9mm Mounting Depth, 1.0mm Height
- Back Flip Design (Front Axis™ Type)**  
- Actuator is closed during delivery and mounting to prevent damage  
- Contact gap for FPC insertion is guaranteed regardless of actuator operation
- High Reliability**  
- High FPC retention force with FPC side catch design  
- Solder wicking and flux penetration prevention



P= 0.5mm



Back Flip

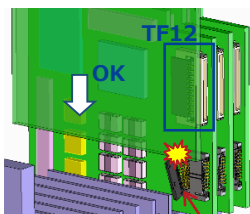


Close without FPC

## Actuator Damage Prevention

### When stacking in a rack:

Lower risk of actuator damage due to mounting in a closed state.



### Conventional Back Flip

### Actuator Damage Not



Mounted with the actuator in an open state

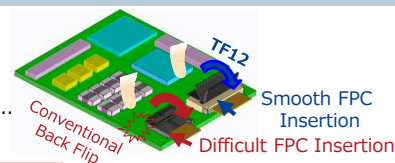
Low height when mounted with the actuator in a closed state

High Risk of Actuator Damage Minimal Risk of Actuator Damage

## Can Close Actuator Before FPC Insertion

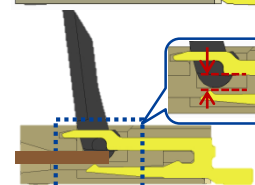
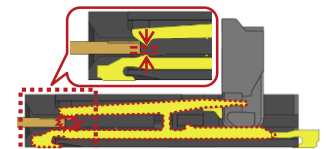
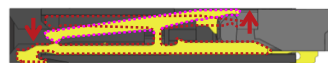
### In case of unintentional actuator closing:

When the actuator is accidentally closed without the FPC inserted...



### Conventional Back Flip

### TF12



If the actuator is closed when the FPC is not inserted and then reopened, the contact gap becomes narrower.

No change in the contact gap

⇒ FPC Insertion Force Increases

⇒ Superior FPC Insertion

## Specifications

Rated Current	0.5A
Rated Voltage	50V AC/DC
Operating Temperature	-55 to +85°C
Contact Resistance*1	100mΩ Max.
Insulation Resistance	500MΩ Min. (100V DC)
Withstanding Voltage	150V AC for i min.

\*1 Including FPC resistance

- Reflow Temperature: 260°C Max.
- FPC Thickness: 0.2±0.03mm
- RoHS, Halogen-free\*2 product
- Variations:  
(TF12 and TF12S differ in the recommended FPC specifications. TF12S and TF12SD differ in the actuator materials.)  
TF12: 9pos.  
TF12S: 4, 6, 13, 15, 20pos.  
TF12SD: 10pos.

\*2 This product satisfies halogen free requirements defined as 900ppm maximum chlorine, 900ppm maximum bromine, and 1,500ppm maximum total of chlorine and bromine.