



FH Flip-Lock Pioneer HIROSE

Features

- Space-Saving**
- 0.5mm Pitch, 3.9mm Mounting Depth, 1.0mm Height
- Back Flip Design (Front Axis™)**
- 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

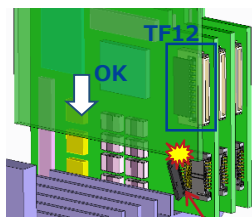


Close without FPC

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

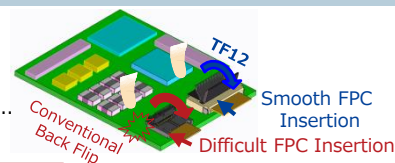
Low height when mounted with the actuator in a closed state

High Risk of Actuator Damage Minimal Risk of Actuator Damage

Can Close Actuator Before FPC Insertion

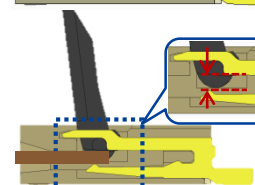
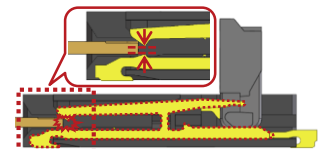
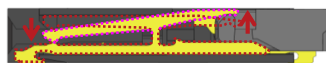
In case of unintentional actuator closing:

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.