

## FX30B Series, 3.81mm Pitch, Up to 17A Power, Board to Board Connector with Misalignment Absorption Structure

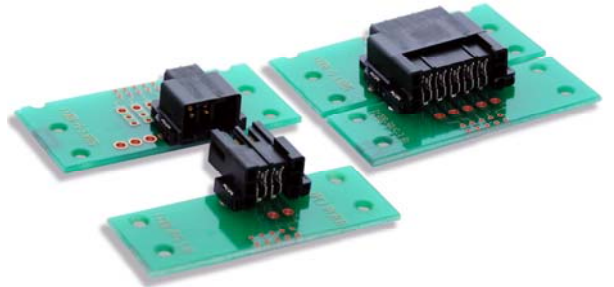
The FX30B series has been introduced to meet the requirement for board to board connectors with high current capacity and the ability to absorb mating tolerances where multiple connectors are used.

The connector range features a special innovative contact structure that allows movement in XY directions of up to  $\pm 0.3\text{mm}$  and  $+ 1\text{mm}$  in Z direction to absorb mating misalignment, vibration and dimensional errors. This is achieved by the blade contacts on the header and the unique spring contacts on the receptacle that are staggered to maintain sufficient deflection range in the limited space. In addition, the gold plated contacts feature four independent angled contact points that guarantees advantageous contact. The effective mating length of 2mm also contributes to ensuring high contact reliability.

The moulded guide posts on the header engage with the ribs on the receptacle to allow for a mating alignment movement of  $\pm 1.3\text{mm}$  in XY directions to simplify the mating operation and prevent incorrect insertion. In addition, there are six keys around the mating face that further prevent reverse insertion.

Three different variations are available to allow a vertical, parallel or coplanar board to board connection.

Hirose's popular FX18 high speed connector can be used on the same board as FX30B to offer a flexible, high speed and high current capability.



### Key Features

- Contact positions: 2, 3, 4, 5
- Pitch: 3.81mm
- Stack heights: 20, 25 & 30mm
- Current rating: 13A - 17A\* max (\* based on 2 position, TÜV)
- Voltage rating: 150V / 250V AC/DC (TÜV / UL/C-UL)
- Variation Type: Coplanar, Vertical & Parallel
- Operating Temperature:  $-55^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$

Suitable applications are industrial equipment, broadcast equipment, medical devices, BTS, measuring instruments and projectors. For more information please contact Hirose.

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