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TETRIS SENSOR COVER

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Tetris sensor cover

Abstract

Tetris sensor is the line sensor mounted at many large format printers. In further products the sensor must be covered for Electrostatic Discharge (ESD) safety requirements. In the meanwhile, an easy access to the sensor connectors allows a better serviceability. If connector latch is fully accessible the sensor can be replaced by the customer itself.

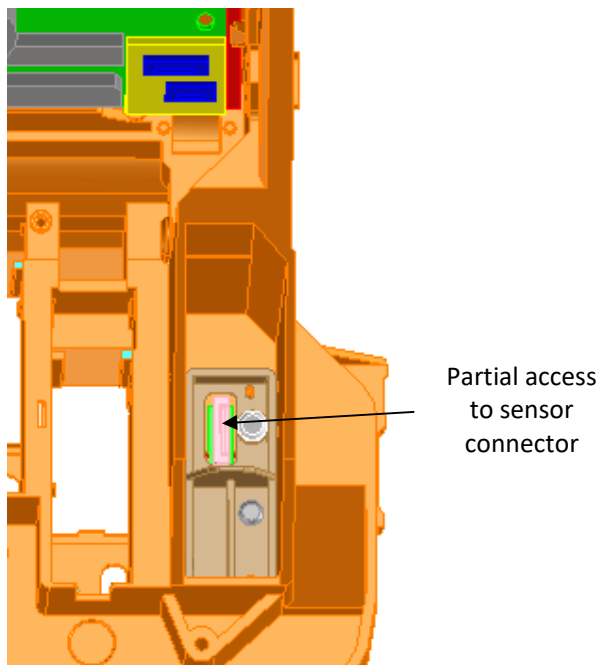
To solve this, we propose a new cover design.

Problem solved

With new cover design, we achieve a full ESD protection and an easy access to the connector latch, by the time it acts as a support for the sensor.

Prior solution

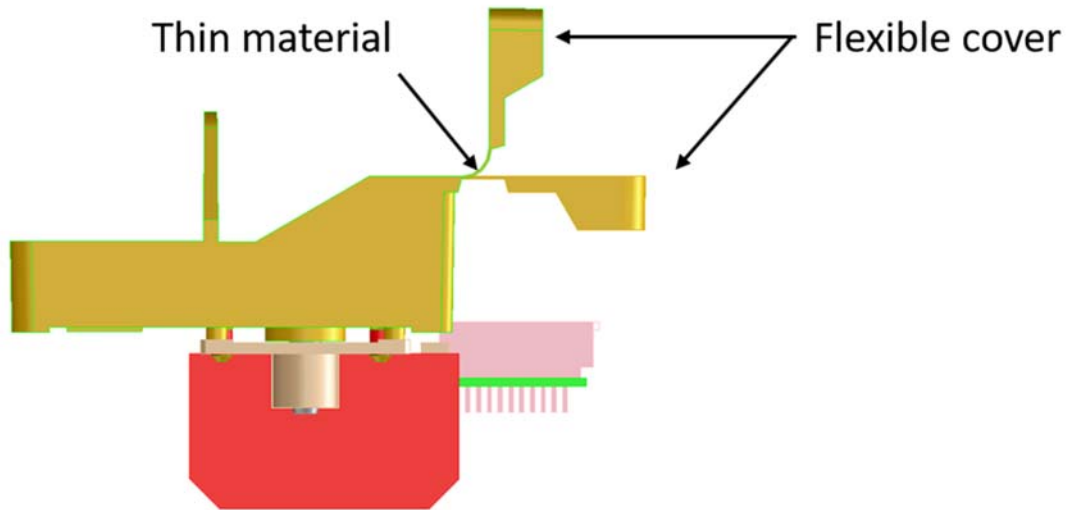
The Tetris sensor is mounted at a support. The support is mounted at the carriage. With this configuration the connector has a partial access that doesn't fulfill new ESD requirements and doesn't allow a direct access to the connector latch.



Our solution

The Tetris support has a flexible cover that can be bended to access connector's latch, so the user can easy remove the FCC and replace the sensor.

Once is closed the access to the connector is removed and it becomes ESD safe.



In comparison with previous systems

- Same number of parts used
- Allows access to connector latch
- Protects against ESD

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