

CFM2103/2203 CRIMP FORCE MONITOR

For automatic wire processing machines



One or Two Channel

Reliability

- Crimp defects are effectively detected and differentiated from normal crimp process variation.
- In-process monitoring and detection of crimp defects including insulation inside conductor crimp, missing strands, change in crimp dimension, deformed crimp, twisted terminal, worn or broken tooling, change in crimp material, variation in the crimp bell mouth.

Flexibility

- Adaptable to a wide range of automatic wire processing machines.
- Configurable features and options for integration with the wire processing machine functions.
- Data management features for data logging, exporting, part number entry, and management.
- Language configurable.

Performance

- Advanced crimp force algorithms deliver the highest level of crimp defect detection with minimum false rejects.
- Consistent and reliable crimp defect detection for a wide range of terminal and wire crimping combinations.
- Common configuration settings support efficient and error-free machine setup.
- ForceView displays graphic detail of the crimping process and reveals process variations associated with crimping defects and variations of the process.

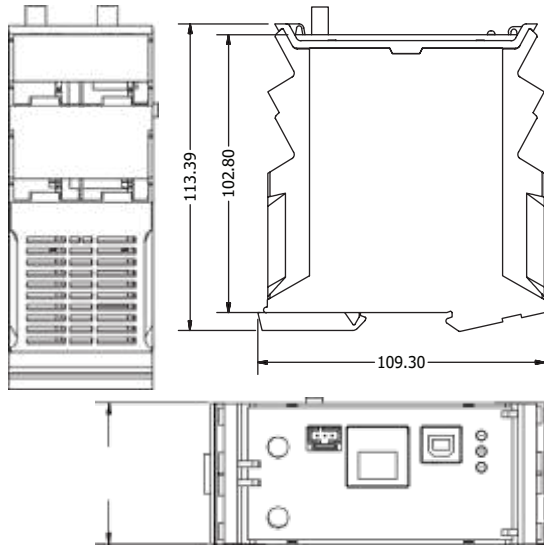
Patents

1998 US Patent No. 5,841,675 2008 US

Patent No. 7,333,906 B2 2014 US Patent Pending

Quick Facts

Model	Application
CFM2103 1 Channel CFM2203 2 Channel	Automatic Machine
Sensor Options	
Piezo strain Piezo force ring PBT force sensor	✓ ✓ ✓
Technical Specifications	
Operating Environment	15 to 50C 60 to 120F
Supply voltage	24VDC
Communications	1 Ethernet RJ45 1 USB 2.0 1 RS232 (optional)
Digital inputs 1 Channel 2 Channel	2 4 (2 per channel)
Digital outputs 1 Channel 2 Channel	3 6 (3 per channel)
Mounting	DIN rail
Dimensions	109.30 x 45 x 113.39mm 4.3" x 1.77" x 4.46"



FORCEView™

ForceView is a powerful graphical user interface software for monitoring the crimping process relative to the crimp process tolerance limit.

Data from each crimp is captured for 100% traceability. Configuration parameters are automatically loaded using the part number selection feature. ForceView integrates seamlessly with the machine production management software.

About OES Technologies

OES Technologies products and technologies are developed specifically for the wire processing industry to monitor and inspect 100% of parts produced during the manufacturing process and prevent part defects from entering the supply chain. OES's dedication to innovation enables them to deliver a steady stream of cutting edge technologies that meet the exacting demands of this ever changing market.

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