

CONTROL ELECTRONICS

Controller MSC

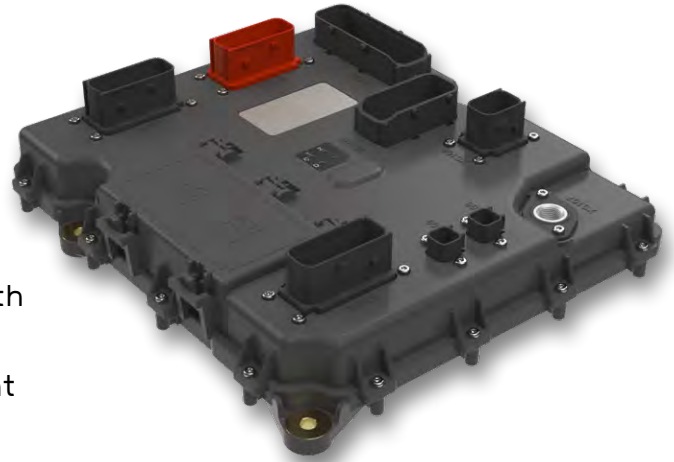
The MSC is a central computing and control unit for executing machine and vehicle applications in mobile and stationary machinery. It is responsible for coordinating distributed control units, processing operator, sensor, and system signals, and implementing functional control tasks as well as safety-related control functions in combination with a dedicated safety component.

The unit enables parameterization, diagnostics, data logging, communication management, and software updates, and serves as the interface between the operator, assistance systems, and drive systems.

It is designed for use in electrically powered vehicles, autonomous systems, industrial trucks, agricultural and construction machinery, and comparable industrial automation solutions.

Features:

- Input voltage (DC): +24 V
- Input voltage range: 18 V to 28 V
- Dual-channel I/O interface with a wide range of inputs and outputs
- Safety controller supporting safety functions up to Performance Level d, Category 3 in accordance with DIN EN ISO 13849
- Main controller:
 - 64-bit dual-core CPU up to 1.2 GHz
 - 512 MB DDR3L RAM
 - 16 GB NAND flash
 - CODESYS PLC functionality in accordance with IEC 61131
 - Backup storage (microSD) for easy component replacement
 - Real-time clock with backup power reserve
- Communication interfaces:
 - 3x Ethernet (100Base-T1)
 - 1x Ethernet (100Base-TX)
 - 2x CAN FD
 - USB host interface
- Integrated fuses for individual outputs including diagnostic capability
- Shock-resistant up to 400 m/s² and vibration-resistant up to 30 m/s² within the frequency range of 10-500 Hz
- Rugged, sealed enclosure (IP64) for harsh operating conditions
- Storage temperature: -40 °C to +85 °C
- Ambient operating temperature: -28 °C to +50 °C
- Service life: ≥ 20,000 h
- Dimensions: 230 mm x 260 mm x 63 mm
- Weight: 1 kg



More information:

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