



**MSC-113**

**Multi-Purpose Slave Control Unit**

**MOBA**<sup>®</sup>  
MOBILE AUTOMATION

# MSC-113

**MSC-113** slave control unit is a simple product to extend I/Os capacitance for mobile machine applications.

This slave controller is designed to meet EN ISO 13849 and it is used in combination with a master electronic control unit (e.g. MPC-113), which may be located in a different place on the machine.

The communication with the slave unit is made via CANopen protocol, on CAN-BUS line. This type of communication architecture reduces wiring as much as possible, with a possibility of cost reduction.

**MSC-113** is an I/O module, designed to handle proportional valves, digital outputs, or digital/analog inputs.

The controller is been designed to meet major international standards such as IEC 61508 and ISO/ EN 13849. Hardware complies to CAT III (EN 13849) and it could be used to devlop software applications that meets the requirements for SIL 2 (Safety Integrity Level 2) or il PL d (Performance Level d).

The product consists of two CPUs, for application execution on two completely independent (and redundant) channels, where each of the CPUs check the other one continously, constantly monitoring the status of inputs and outputs for safety reasons. The I/O slave control unit is supplied with a “ready-to-run” software and and EDS file. If the related master control unit (e.g. MPC-113) is programmed in CODESYS, the EDS file can be easily imported into the CODESYS project, allowing to save a lot of development time.

# MSC-113

## Slave multi-purpose control unit for safety applications



- » Designed to work with two completely independent channels (redundant)
- » Compact connector, for a quick and easy machine installation
- » Robust design, completely potted, for mobile machine applications
- » Optimized to be immune to high frequency mechanical vibrations
- » Two **32bit** microprocessor – **ARM** architecture
- » I/O configurable, via software
- » **CAN-BUS** single line
- » Protection class **IP67**
- » Designed to be ready for **PL d** application
- » Compact connector, class **IP67**



Multi-purpose SLAVE Control Unit  
MSC-113

## TECHNICAL DATA

Power Supply: 6/32Vdc

Consumption:  $\leq$  200mA

Operative Temperature Range:  $-25^{\circ}\text{C}/+70^{\circ}\text{C}$

Microprocessor: 2 x CPU 32bit - ARM

IP Level: 67

Inputs: 2x6 Digital/Analog Programmable

Outputs: 2x6 Digital/PWM Programmable

Interface: 2xCAN-BUS ISO 11898 24V

Mechanical Dimensions: 70x105x48 mm

For further information on **MOBA MSC-113** control unit you can reach us  
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