### EC-MMS-0713-H MACHINE MANAGEMENT SYSTEM

#### DESCRIPTION

MMS (Machine Management System) controller with built-in advanced driving and fault-detection features to be used as a stand-alone unit or in connection with other CANbus units (e.g. joysticks, MLTs, radio, other MMS).

#### OPERATION

EC-MMS-0713 can be used as a stand-alone controller for applications with a single PWM or dual proportional manifolds where the functions are operated in meter-in configuration. Its CANbus interface allows it to be used as a part of complex CAN networks e.g. equipped with radio systems. EC-MMS-0713 is provided with display and push-buttons to configure the control characteristics (Imin/Imax, ramps, deadbands, dither) of its PWM output channels.

#### FEATURES

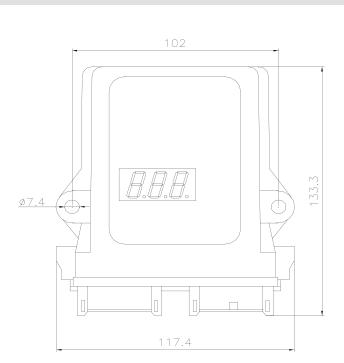
- · Power supply line is protected against reversed polarity and overvoltage.
- · Inputs are protected against short circuits to GND and supply.
- · Outputs are protected against short circuits, over-current and over-temperature.
- CANbus (CAN 2.0B) interface
- Internal measurement of battery voltage.
- The current in the proportional solenoids is independent of change in the coil resistance and supply voltage variations.
- · Especially designed for applications with manifolds in meter-in configuration (single or dual proportional).

#### SPECIFICATIONS

Operating voltage:	8.5÷32 VDC
Max current consumption:	0.25 A (no load applied)
Operating temperature:	-25°C / +85°C
Degree of protection:	IP 65 (with housing)
Analogue inputs:	1, 10-bits resolution
Analogue input type:	0÷20 mA or 0÷5 V selectable by sw
	(HW option 0÷10 V)
Digital inputs:	6
Input impedance:	100kΩ (internal pull-down)
Max current load on all outputs: 10 A	
High Side power outputs:	13 (3.5A max each)
	(HW option: 14-one digital input not available)
Current output range (PWM):	3 A
Available current feedbacks:	2 (on the high side)
	(HW option: 4)

#### **APPLICATIONS**

- 12 VDC and 24 VDC systems.
- · For hand held terminal cable/radio applications.
- Field adjustable applications.
- · Machine management systems based on CANbus.



WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.



4484 Boeing Drive Rockford, IL 61109 • USA • Phone +1 (815) 397-6628 • Fax +1 (815) 397-2526 mail: delta@delta-power.com • **www.delta-power.com** 

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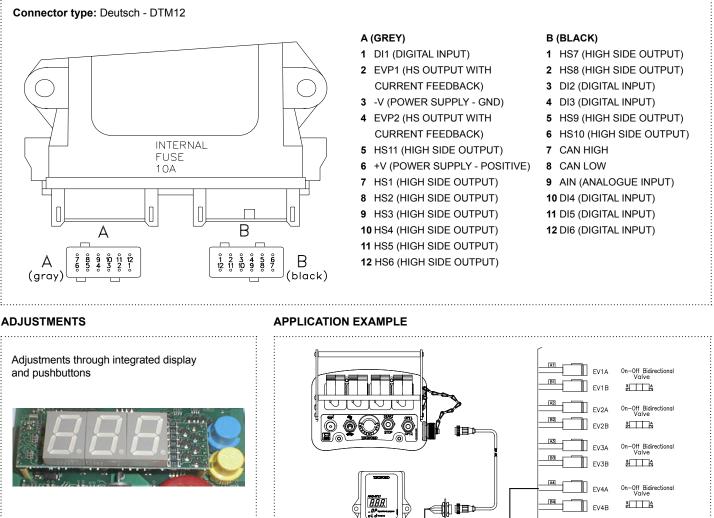
DIMENSIONS

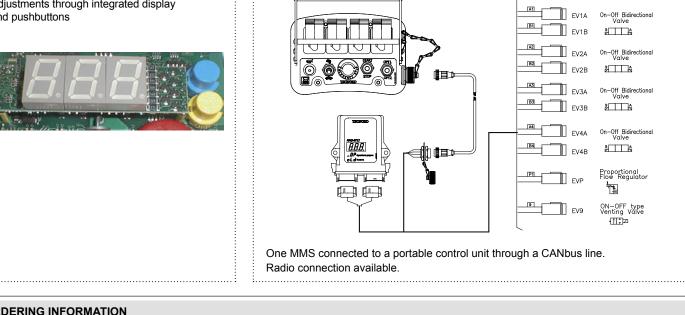
Via Malavolti, 36 • 41122 Modena • ITALY • Phone +39 (059) 254895 • Fax +39 (059) 253512 mail: tecnord@tecnord.com • **www.tecnord.com** 



#### EC-MMS-0713-H MACHINE MANAGEMENT SYSTEM

#### **CIRCUIT BOARD PINOUT - WIRING DIAGRAM**





**ORDERING INFORMATION** 

EC-MMS-0713-H J

0713 = 7 inputs - 13 outputs

H = potted plastic Housing for panel mounting

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