EC-PWM-A1-MPC1-P PWM DRIVER

DESCRIPTION

Microprocessor-based PWM electronic driver for remote control of a single proportional solenoid valve.

OPERATION

The EC-PWM-A1-MPC1-P proportional valve driver receives a command signal from a potentiometer, PLC or other control systems, and supplies a solenoid with a PWM (Pulse Width Modulated) current proportional to the input signal. An auxiliary power supply (+5 V) is provided as a reference for the command signal. Adjustments of "Imin/Imax", "Ramp time" and "Dither" can be carried out directly from a key-pad integrated on the front panel.

Mounting option: panel-mounting style with INPUT/OUTPUT multi-core sheated cable.

FEATURES

- The current in the solenoid is independent from any change in the coil resistance or in the supply voltage.
- The inherent superimposed dither frequency helps to overcome friction and stiction effects in the controlled device.
- Power supply line is protected against reversed polarity and load dump.
- Input is protected against short circuits to GND and power supply.
- · Output is protected against short circuits, over-current and over-temperature.
- The EC-PWM-A1-MPC1 is completely potted.
- Electro Magnetic Compatibility (EMC): EN 61000-6-2 (Immunity), EN 61000-6-3 (Emissions).

SPECIFICATIONS

8.5÷30 VDC
100 mA (no load applied)
-25°C / +85°C
560 KOhms
1 MOhm
250 Ohms
IP 67
0÷5 V
0÷10 V
0÷20 mA
2÷47 kΩ
100÷3000 mA
55÷200 Hz (adjustable)
0.05÷5 s (adjustable)
15 mA

DIMENSIONS





APPLICATIONS

Primary applications are the control of proportional pressure reducing valves and proportional flow regulators to attain smooth acceleration/ deceleration and fine-metering control of electro-hydraulic functions.

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.



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EC-PWM-A1-MPC1-P PWM DRIVER

CIRCUIT BOARD PINOUT - WIRING DIAGRAM



ADJUSTMENTS

APPLICATION EXAMPLE



ORDERING INFORMATION

E	C-PWM-A1-MPC1-P	Part numbers	Version	
	T T	23.0409.045	0-5 V	
	23.0409.087	0-10 V		
A = Adjustable	ustable P = Panel Mounting	23.0409.136	0-20 mA	

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