



SDMWA130

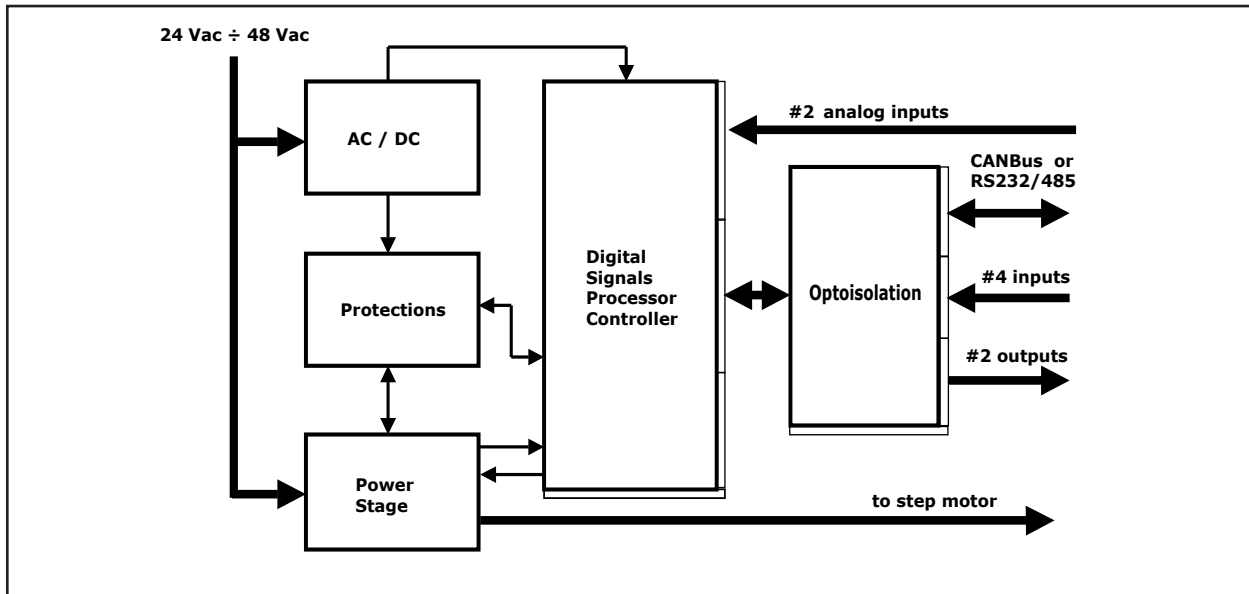
Programmable Full Digital 2/4 phases Microstep Driver

Technical Characteristics

- Power supply : 24 ÷ 48 Vac
- Phase current : 0.5 ÷ 5.0 Arms;
- Driver type : bipolar chopper;
- Chopper frequency : 40kHz;
- Step angle : from full step to 1/256 sinusoidal current waveforms;
- Protections : over-current, over-voltage, under-voltage, DC bus voltage ripple, short circuit phase/phase and phase/ground, open-phase, drive over-temperature;
- Inputs (optocoupled) : # 4 200kHz 24 Vdc PNP or NPN inputs;
- Analog inputs : # 2 ±10Vdc not isolated;
- Outputs (optocoupled) : # 2 24Vdc – 500mA outputs protected against short circuit;
- Bus interfacing : CANbus or RS232/RS485 serial link;
- Dimensions : 86.0 x 165.0 x 45.0 mm;
- Programming : of user variables (through CANbus or RS232/485);
- Connections : to power supply, motor and I/O through cable clamp connectors;
- Weight : 570g;

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Hardware block diagram:



The SDMWA130 is a step motor programmable driver, powered through a in AC voltage bus, implemented through a new generation of DIGITAL SIGNAL PROCESSOR CONTROLLER. In a compact housing the unit integrates a microstep drive able to move the motor according to motion profiling commands mastered by a PLC or by a PC. The connection to the master unit is made through a CAN or a RS232/485 link or by #4 24Vdc inputs, #2 outputs and #2 ± 10 Vdc analog inputs. All the interfaces, digital inputs and outputs are optoisolated. The unit can drive the stepper motor in open or closed velocity & position loops, according to internal acceleration and deceleration ramps, while running a real time checking of the critical working parameters as temperature rise, voltages and currents. The drive can also operate in 'stand alone' mode implementing a wide range of ready to use motion control applications like: labelling, digital tracker and indexing.



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