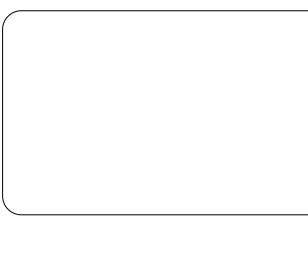
LAM Technologies is an Italian manufacturer of industrial automation components who has developed its own products thanks to the experience achieved in more than 15 years of activity and to the constant attention to the customer's needs.

Mainly oriented towards the industrial automation, today are available drives for electric motors, signal conditioner modules, power supplies, data acquisition modules, stepper motors, etc.

Our products are used in a wide variety of industrial applications such as packaging, paper and wood machines, CNC machines (as engraving and cutting), scientific applications, labelling, dispensing and many other types of automatic machines.

The most important national and international manufacturers chose LAM Technologies products not only for their reliability and innovative technical characteristics, but also for the support, the stock availability and their particularly competitive price.





### LAM Technologies

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LAM Technologies electronic equipment

# Since 1991 components and solutions for industrial automation



## DS30 programmable stepper drives series

The DS30 stepper motor drives have a built-in flexible motion controller able to perform accurate motor control in speed and position.

The quick and simple programming is made through the development software tool, putting in sequence the various functional blocks. There are assignment blocks, conditional jump blocks, etc. Particularly powerful is the mathematical block able to execute additions, subtractions, multiplications and divisions with 32 bit of resolution.

The connection with the external devices is through 4 inputs and 2 digital outputs each one optocoupled, independently PNP or NPN and line driver usable. Two +/-10V analog inputs and one 0-10Vdc analog output complete the available interface signals.

The DS30 series is composed of 8 different models with a voltage range from 20Vdc to 240Vdc and a phase current range from 0,8Arms to 10Arms (equivalent to 14,2Apk).



#### DS10 and OS10 microstepping drives series



High reliability and performance, compact size and low cost are the guide lines followed to develop the drives of DS10 series suitable for DIN rail mounting.

Using the last electronic components generation and the SMT technology it has been possible to realize an high power and compact driver, easy and quick to install on DIN rail mounting (DS10 series) or on panel (OS10 series).

The driver is controllable through the standard *step* and *direction* signals or the internal oscillator which allows to control the motor rotation through a start / stop input.

Each I/O is optoisolated, independently PNP or NPN and line driver usable.

The driver is fully protected to preserve its integrity from the most common problems. Particularly appreciated is the break motor phase diagnostics, very useful to determine wiring problems or motor failures.

The DS10 and OS10 series is composed by a total of 16 different models with a voltage range from 20Vdc to 240Vdc and a phase current range from 0,8Arms to 10Arms (equivalent to 14,2Apk).





## Stepper motor drives for circuit board assembling

The stepper motor drive modules of the USD series have been designed for circuit board assembling and are the optimal solution to reduce sizes and eliminate wiring.

Perfectly integrable with the electronics of the machine they allow to realize compact and reliable systems.

The series is composed of 12 different models, subdivided in 3 current sizes and 4 different functionalities. Some models are controllable through the *step* and *direction* signals, others through the serial link. For both of them are available versions with step resolution of half step and versions which allow the microstep resolution up to 25.600 step/rev.

LAM Technologies is able to offer a complete range of two phase stepper motors characterized by high torque, compact size and low rotor inertia.

The available torques goes from 0,28Nm up to 21Nm while the phase current is between 0.6A and 12A.

All the models are provided with a standard NEMA flange and a step angle of 1,8°. The mechanical and electric design has been optimized for the microstep driving and, together with our drives, these motors ensure an accurate and smooth movement of the shaft.

The constructive care and the materials quality make the LAM Technologies stepper motors the best choice for all the applications requiring a reliable, performant and economic stepper motor.

Two phase high torque stepper motors



# RS232, RS485/RS422 and USB converters and interfaces



The CNV30 serial converters are realized in digital technology to obtain high and constant performances.

The available models cover the conversion requirements from RS232 to RS485/RS422, from USB to RS232 and from USB to RS485/RS422.

Of compact size, they are designed for DIN rail mounting. The triple isolation solution (among inputs, outputs and power supply) avoids the problems related to ground loops and improves the noise immunity. Each input is protected from electrostatic discharges while the outputs can be short circuited, even permanently, without damaging the module.

# Unregulated power supplies for DIN rail mounting

The DP1xx1/2 unregulated power supplies series is composed of 6 different models, different in terms of voltage, current and functionality. Designed to be used with the DS stepping motor drives series, they reveal to be a a practical solution also to supply different devices.

For each voltage/current size it is available a basic version and an enhanced version with a built-in electronic braking resistor control.

