



Compact Stepper Drive DSM9-RS

- Compact Size
- Absolute Positioning or Velocity Mode
- Supply voltage 24-80V_{DC}, max. motor current 6.4 A_{eff}
- Microstepping Resolutions up to 25,600 steps per Revolution
- Idle current reduction
- Noiseless at standstill, smooth operation,
- Low Heat Losses
- 30 motion tasks with adjustable Ramps, programmable via RS232
- Opto-isolated Inputs
- Separate Supply Voltage for Electronic and Motor

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*Helping you build a better machine, **faster.***

The DSM9-RS Stepper Drive is the solution for programming devices with motion tasks and controlling these devices via input signals.

The DSM9-RS Stepper Drive is a compact, single-axis positioning controller with integrated stepper motor output stage.

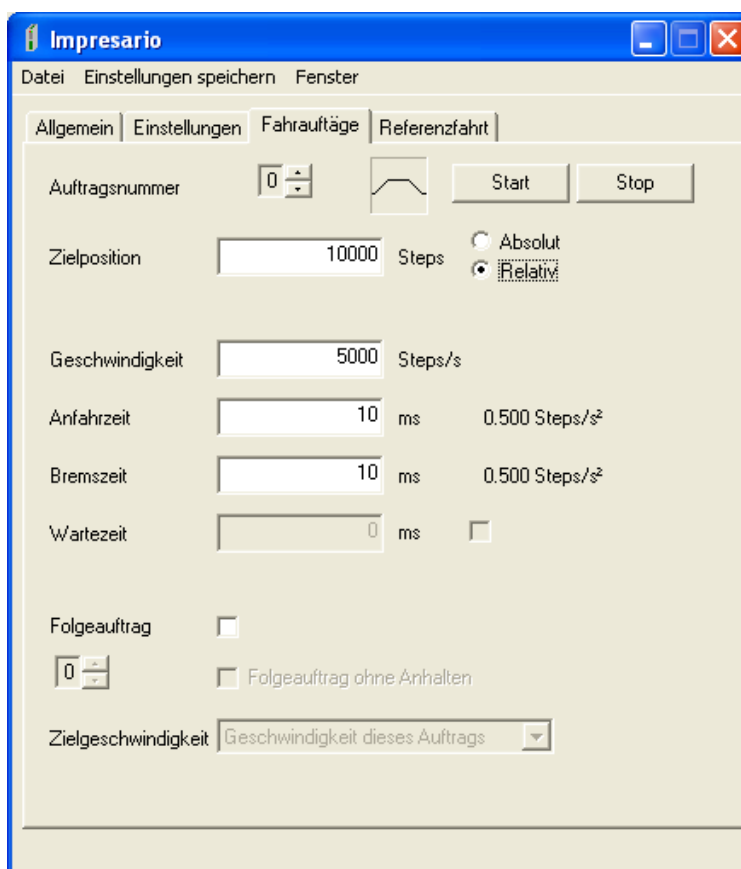
The inputs are used as limit switch, stop switch, reference switch, and for starting motion tasks.

The motion tasks are configured in simple steps with the "Impresario" user interface.

For more complex motion sequences a subsequent task that will start immediately after the end of the task or after a wait time can be assigned to each motion task.

Movement sequences with different speeds can also be implemented, as motion tasks can also be chained without standstill.

The DSM9-RS Stepper Drive can be easily integrated in any controller system, as only a few basic settings are necessary.



Technical data

Supply voltage

70V_{DC}, power supply voltage range 24 - 80 V_{DC}

Motor current

max. 9A_{peak}; 0,3 to 6,4A_{rms}
for 2-phase stepper motors with 4, 6, or 8 leads

Power supply

For the motor power supply only a unregulated DC voltage is required.

Standstill current reduction

The delay time and the current value are adjustable

Step precision

Adjustable up to 25,600 microsteps

Inputs

4 (limit switch, reference point, stop, motion task, reference travel) 5V-30CV

Fault Protection

Line-to-Line and line-to-neutral shorts

Over temperature

Ambient temperature

0-50 °C without heat sink max 3A @ 25 °C / 1.5A @ 45 °C
with heat sink (optional) max 6.4A @ 25 °C/3.2A @ 45 °C

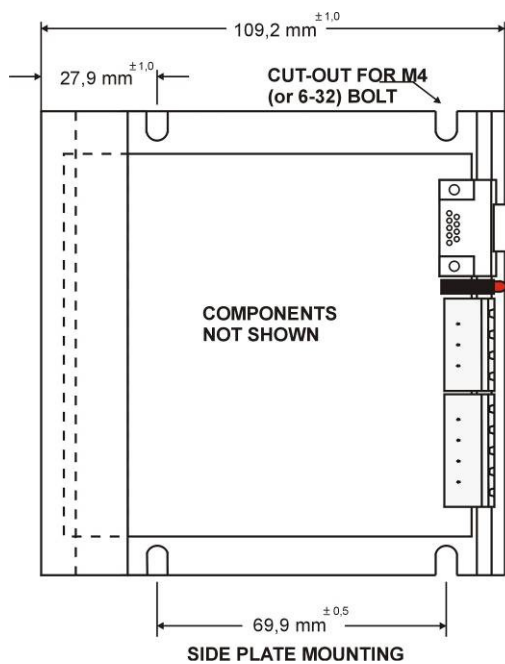
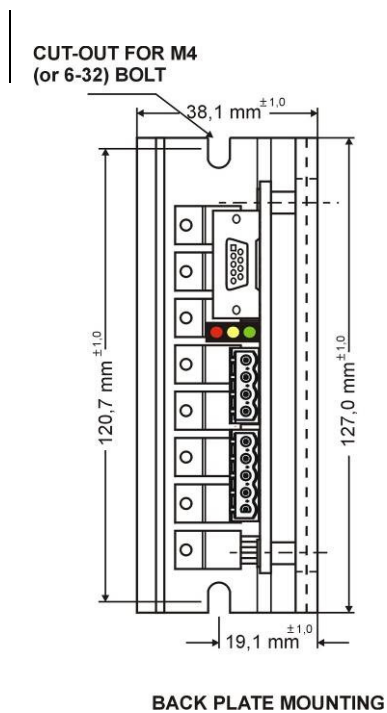
Heat sink temperature

Max. 60 °C, forced cooling may be necessary

Humidity:

10-90%, non-condensing

Dimensions:



Order Code
DSM9-RS-01