BAUTZ
Hochdynamische, elektromagnetische Antriebe

Profibus DP Stepper Drive

- Part of the 6400 Series
- Either Absolute Positioning or Velocity Mode
- Adjustable Ramps
- Compact Size (Fits on your Palm)
- Operating from 24 – 75 V_{DC}
- 0.6 to 5 A_{RMS}
- Isolated I/Os
- Microstepping Capability

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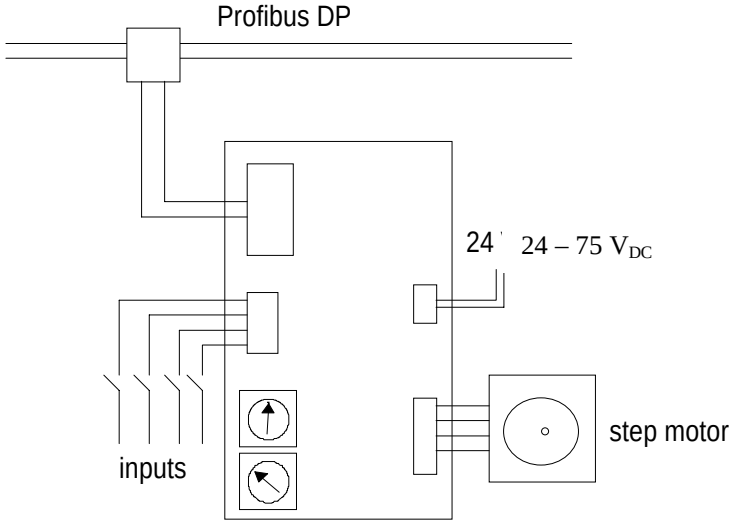
Description

The Profibus STEPPER is ***the*** solution to control, over Profibus DP, several step motor axis distributed in the field. The STEPPER is a compact single axis positioning control. It has two limit switch inputs an interrupt and a reference switch input. To run the STEPPER over Profibus DP, only eight input and output bytes each are necessary to execute positioning tasks for one axis. Since only the process data channel is used, the STEPPER can be integrated into any control system using Profibus DP as sensor-actuator bus, without additional expenditure. Because of the rapid and simultaneous transmission of the input and output bytes with all Profibus DP participants, there are a great variety of possibilities for realizing multi-axes applications over the bus without having to cope with synchronization problems.

Block Diagram Function



The Profibus Bytes

8 Output Bytes

Byte No	Meaning
1+2	velocity command
3	acceleration
4	command byte
5-8	four bytes position command

8 Input Bytes

Byte No	Meaning
1+2	actual velocity
3+4	status bytes
5-8	four bytes actual position

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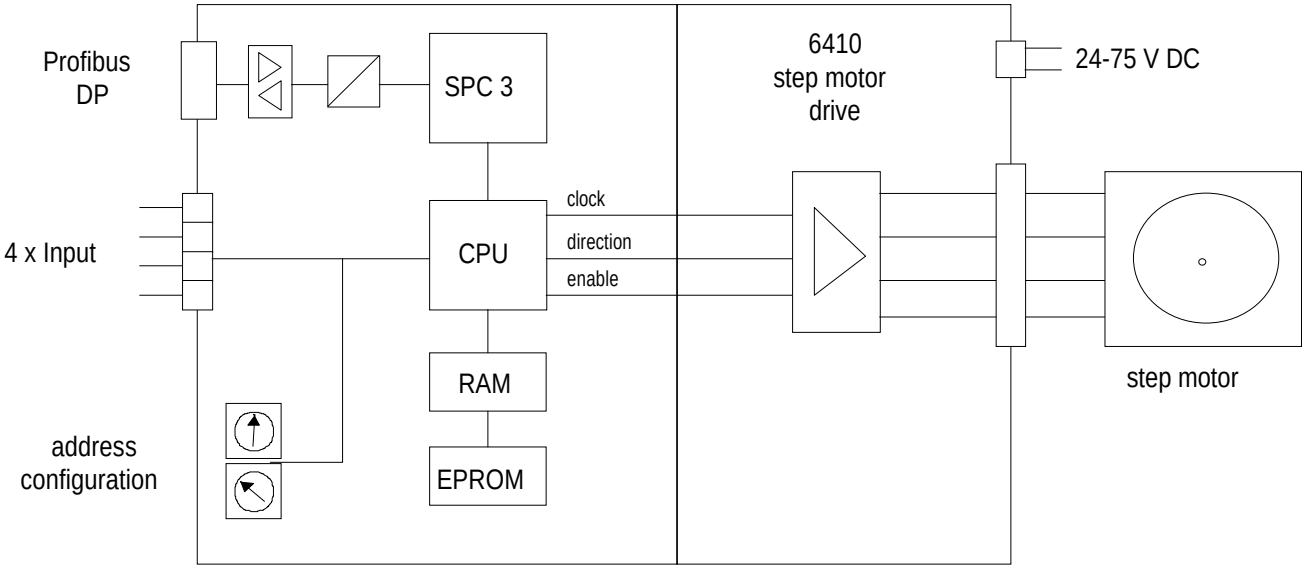
Block Diagram Hardware Structure



Technical Data

Profibus Stepper 6410-PB	
Input voltage	24 – 75 V
Output current	0.625 A – 5 A_{RMS} adjustable in 0.625 A increments
Max. step frequency	20 kHz
Idle current reduction	50% after 0.05, 0.1, or 1 sec.
Fault protection	• Line-to-line and line-to-neutral shorts • Internal power supply under-voltage • Bus over-voltage
Patented digital electronic damping to eliminate motor oscillations	

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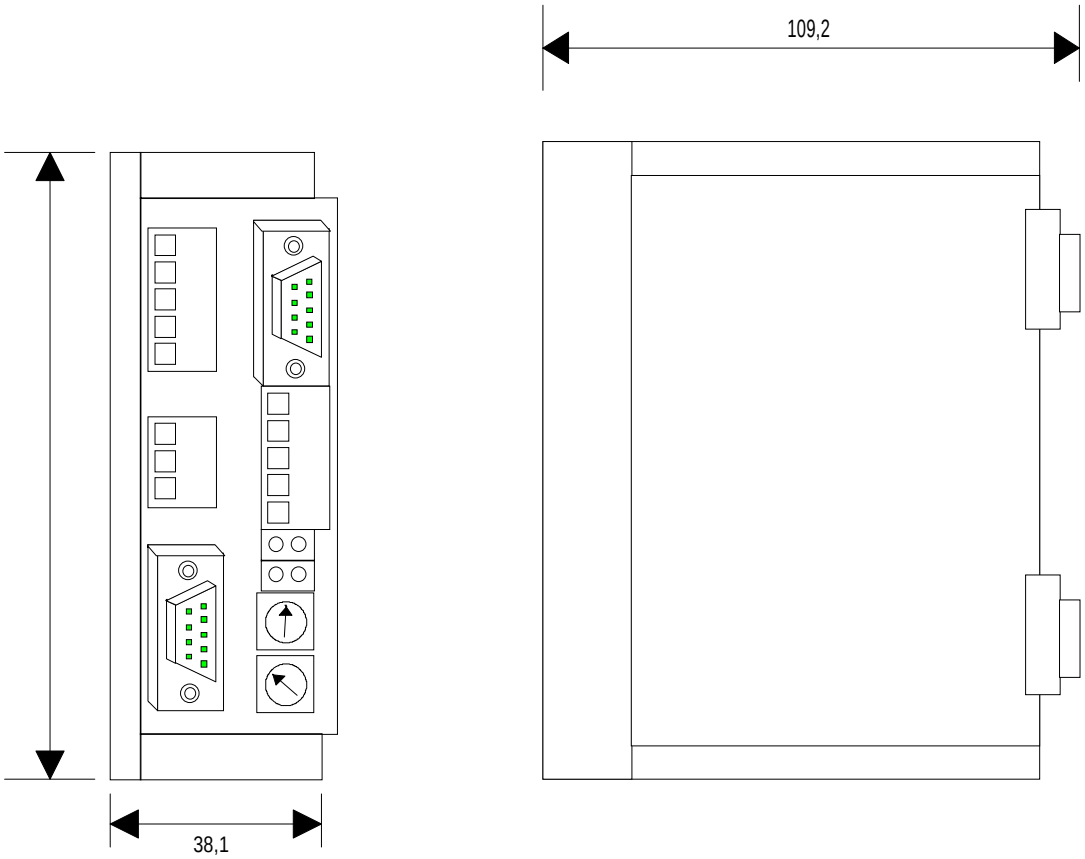
Dimensions



Order Code

6410-PB1-C-N-K

- K = Connector kit included
- N = No heat sink
  H = Heat sink included
- C = Cover included
- Profi Bus Interface
- 6400 drive series

PB-Flyer-GB-32-99-L

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