


# AZ2


## Full electronic drive for two linear actuators

 ELECTRONIC R&D:



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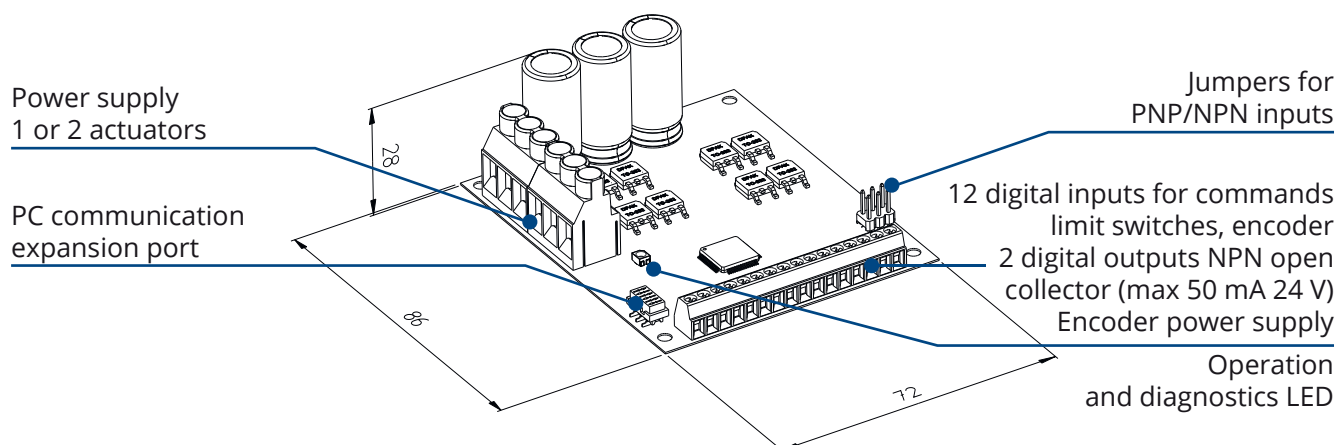
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## OUTSTANDING CONTROL OF LINEAR MOTION

- Control of one/two linear actuators, independent or synchronized
- 12V DC to 48V DC power supply
- 10 A or 15 A, service  
S3 – 30% – 5 minutes for each motor
- 12 digital inputs, 2 digital outputs
- Incremental encoders
- Modbus RTU over RS485

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## OVERVIEW

AZ2 is a full electronic motor drive designed for the control of two DC motors in extra-low voltage applications. The power stage is based on MOS transistor technology, controlled by a pulse width modulation (PWM). A microcontroller elaborates the control data, generates the output waveforms and manages the communication interfaces. The user can exchange data and commands using the digital I/O and a Modbus interface; the last one is used for communication with the PC software through which the user can change parameters, monitor the status of the drive and read diagnostic information.

## FULL SPECIFICATIONS

### POWER STAGE

Supply voltage:  
12 to 48 V DC, max. ripple 20%

Output current: 10 A each motor  
(20 A of total power consumption,  
min. 30 A power supply needed)  
Output current 15 A each motor  
(30 A of total power consumption,  
min. 40 A power supply needed)

Service:  
S3 - 30% - 5 minutes

### OPERATIVE MODES

Option 1: two synchronized  
actuators

Option 2: one/two independent  
actuators

One/two DC motors

### CONTROL

Control mode:  
voltage, in open loop

Profile configuration:  
complete

Overcurrent detection:  
different thresholds for CW/CCW

### INPUTS

Commands: open, close, stop, analog  
input 0-10V (\*)

Limit switches: open, close,  
intermediate

Limit types: mechanical, encoder,  
potentiometer (\*)

### PC SOFTWARE/INTERFACE

Parametrization:  
basic & advanced views

Diagnostics:  
monitor/statistics panels

Commands:  
remote command panel

### COMMUNICATIONS

Modbus RTU (over RS485) (\*)

USB/UART cable converter

### PLUS

Customizable ramps

Current/temperature limits

Control by Hall effect/incremental  
encoders (setting of electronic limit  
switches both in opening and closing,  
only available with sync mode)

### ORDERING KEY

PF.0104: 10 A version

PF.0106: 15 A version

PF.0102: USB/UART cable converter

\* Only available with expansion board