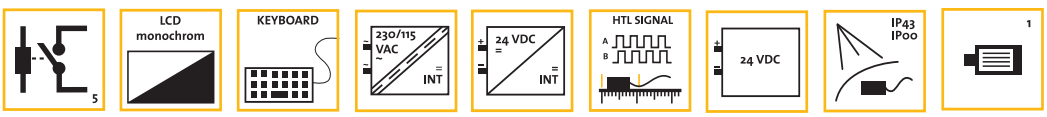
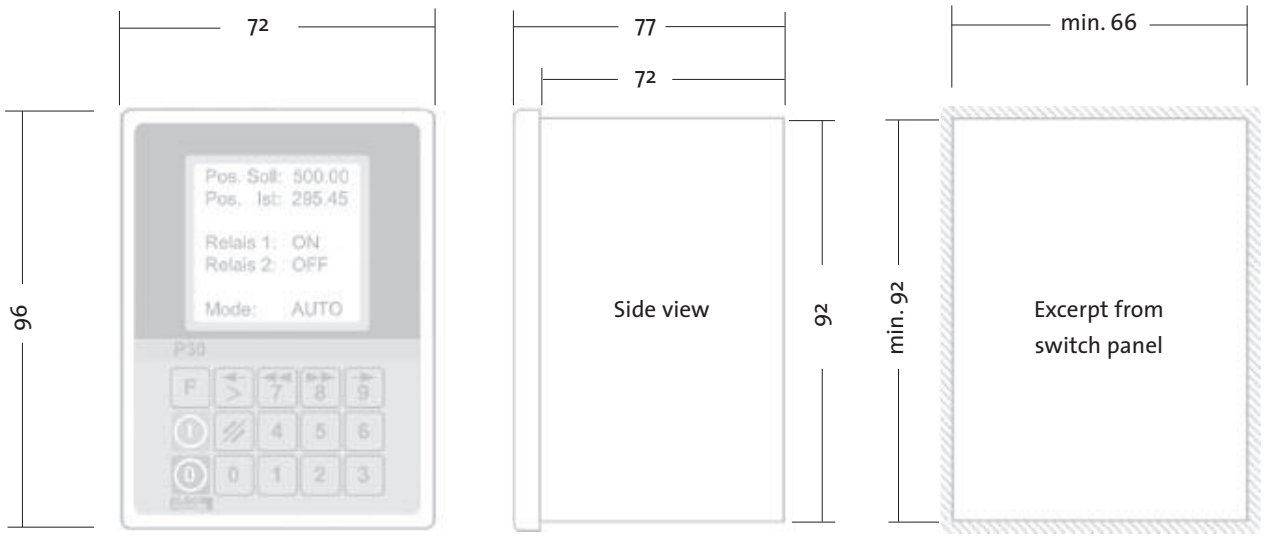
P30

Type: **compact position controllers**
Controller capacities: **1 axis**

Features:

- **Compact design**
- **Comprehensive parameters menu**
- **Integrated 115/230 VAC power unit**
- **Potential free normally opened contact (NOC) relay outputs**
- **Program memory (99 lines)**
- **Manual inching operation**
- **Dot matrix LCD with back lighting**





⇆ Installation depth including connector = 90 mm
⇆ all dimensions in mm

The P30 is a very compact, user-friendly simple controller with relay outputs which enable a positioning with up to three speed options. An extensive range of common position parameters like, for example: spindle adjustment, manipulation tolerance window, adjustment limit, adjustable departure functions, reference values, saw blade/tool corrector and many others are included.

An integrated adjustable impulse assessment factor and flank evaluation including a programmable decimal point are included in order to adapt to the relevant measuring system (rotary encoder or magnetic length measuring system).

The P30 can be operated in manual inching mode (manual operation) and, in programmed operations, has a 99 lines memory available.

Technical data:

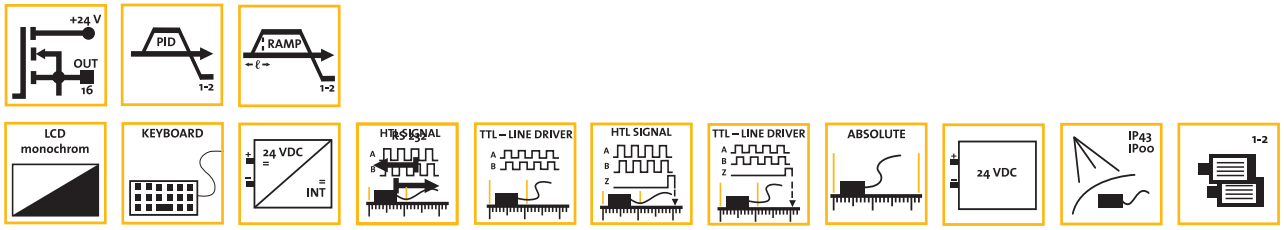
Display:	Dot matrix LCD with back lighting
Supply voltage:	230 VAC/50 Hz or 115 VAC/60 Hz +/- 10 % optional 24 VDC +/- 10 %; 450 mA at 24 VDC, 25 VA at 115 VAC, 5 VA at 230 VAC
Measuring system supply:	24 VDC
Digital input signals:	PNP, (optional NPN) min. 200 ms impulse duration
Input frequency of meas. syst:	15 kHz (higher available upon request) per channel, A or B
Output signals:	potential free NOC 220 V/ 2 A
Connection technology:	Plug-type, tension-relieved screw terminals
Hardware:	32 Bit microprocessor with 768 KByte flash and 24 KByte RAM
Housing:	Metal
Keyboard:	Flim, short stroke keys
Protection class:	IP43 (in installed condition from the front)
Operating temperature:	0...50°C
Storage temperature:	0...70°C
Relative humidity:	Non-condensing max. 80 %

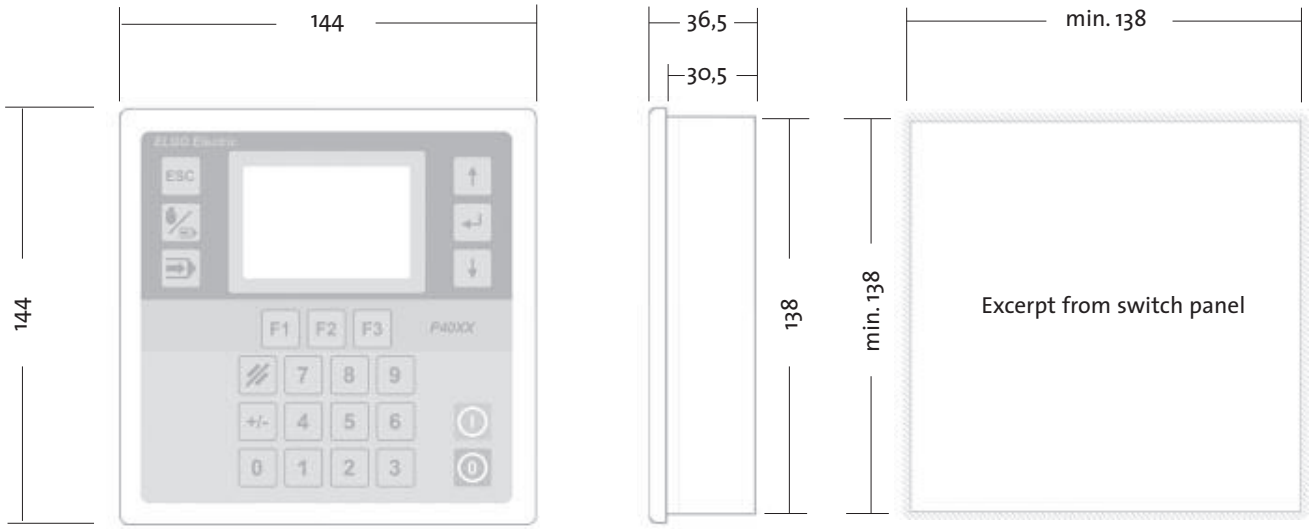
P40

Type: **compact position controllers**
Controller capacities: **1 and 2 axes controllable**

Features:

- Diverse interfaces (CANopen, RS485, RS422)
- User-friendly
- Manual inching operation
- Individual record operation
- LCD display
- Program memory 500 lines
- Integrated diagnosis operation
- 16 digital outputs (+24 V-PNP)
- PID – analogue output available as an option





Installation depth including connector and cable bend radius = 100 mm

all dimensions in mm

The P40 is predestined for simple positioning applications in mechanical engineering. The principal benefit is the convenient and rapid input of nominal value and, if required, input of a quantity figure. The actual value, nominal value, quantity and other important values are shown in the LCD display. Parameterisation is carried out in plain text via a graphic menu.

The P40 is available with an extensive software standard and an internal program memory of up to 500 lines. For positioning, there are three different variants of output signal available: Shutdown positioning (for one to three speeds), PID and ramp controlled analogue output.

Depending on the variant concerned, the P40 can be supplied with either 24 VDC or 24 VAC. It can communicate with a superordinate system via an optional interface.

Technical data:	
Display:	LCD dot matrix with back lighting
Connection voltage:	24 VDC (+/-10%), max. 200 mA; 24 VAC, max. 10 VA with unimpaired outputs
Measuring system supply:	24 VDC
Digital input signals:	PNP, min. 200 ms impulse duration
Input frequency of meas. syst:	25 kHz per channel, A or B
Digital output signals:	Open emitter, with limited resistance to short circuits, max. 100 mA output current, integrated free wheeling diodes.
Analogue output signals:	+/- 10 V resolution 11 bit PID or ramp control
Connection technology:	DSUB plug connectors or terminals
Hardware:	32 Bit microprocessor with 768 KByte flash and 24 KByte RAM
Housing:	Metal
Keyboard:	Film keyboard
Protection class:	IP 43 (in assembly)
Operating temperature:	0...50°C
Storage temperature:	0...70°C
Relative humidity:	Non-condensing max. 80 %

Our proven compact controllers

Note: Available until further notice

P8511

Simple controller without programmable memory

- For simple positioning applications
- With optional integrated PID analogue output (+/- 10 V)
- Manual inching operation
- Up to 3 speeds
- Additional quantity window
- Display of actual value, nominal value and quantity on control panel
- Using the keypad, nominal value and quantity can be specified and the positioning operation can be started.
- 24 VDC power supply or integrated 115/230 VAC power unit
- Available with relay or digital outputs
- Optional RS232 interface

P8721

Simple controller with programmable memory

- Identical basic functions to the P85
- 200 records program memory
- With optional integrated PID analogue output (+/- 10 V)
- Manual inching operation
- Individual record operation
- 24 VDC power supply or integrated 115/230 VAC power unit
- Available with relay or digital outputs
- Optional RS232 interface

P8822

Two-axis controller with programmable memory

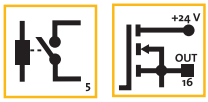
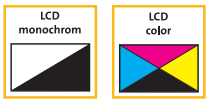
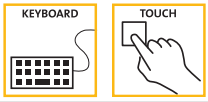
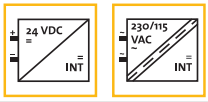
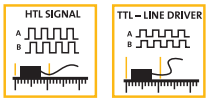
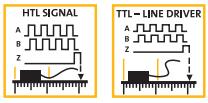
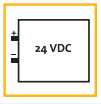
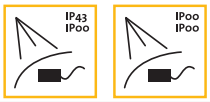
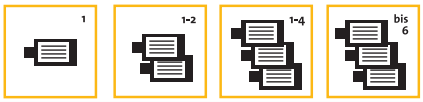
- Designed for the positioning of two axes
- With a few restrictions, it matches the functional capabilities of the P87
- 24 VDC power supply or integrated 115/230 VAC power unit
- 200 records program memory
- Manual control unit
- Available with relay or digital outputs

P9511/P9521

Compact simple controller with program memory

- Program memory (10 records)
- Manual movement function
- Compact design
- Comprehensive parameters menu
- Potential-free changeover relay outputs
- 24 VDC power supply or integrated 115/230 VAC power unit

Symbols for technical data and their meaning

Property control	Symbol	Explanation
Digital output signals		Potential-free NO contact or electronic output signal
PID drive control		PID analogue output for 1-2, 1-4 or 1-6 axes
Drive control ramp function		Ramp-controlled analogue output for 1-2, 1-4 or 1-6 axes
Display mode		Monochrome or colour LCD
Type of input		Keyboard or touchscreen
Connection voltage		24 VDC or 230/115 VAC supply voltage
Incremental measuring system input without index impulse		HTL- (single ended) or TTL-signal (coincident)
Incremental measuring system input with index impulse		HTL- (single ended) or TTL-signal (coincident)
Absolute measuring system input		Interface for absolute ELGO measuring system
Measuring system supply		24 VDC supply voltage for rotary impulse sensor or linear measuring systems
Type of protection		IP43 in installed condition and IP00 in uninstalled condition and/or IP00 in installed and in uninstalled condition
Number of axes		1, 1-2, 1-4 or up to 6 axes
Interfaces		RS232 communication

The position controllers

In the automation era, the demands faced by the mechanical engineering sector have risen: never before has it been so essential to satisfy wishes for quality, flexibility and customized solutions in an application-oriented context.

ELGO expertly reflects these aims and objectives in its product portfolio of controllers and offers user-friendly and cost-effective solutions in the axis positioning, angle adjustment and speed monitoring sectors. To satisfy the requirements of diverse sectors, ELGO can supply compact controllers, programmable controller systems and IPCs.

These positioning controllers offer significant benefits.

- Positioning via bipolar analogue outputs or digital travel signals
- Storage of axis parameters and function blocks
- Simple assembly and installation
- Menu-guided user interface
- User-friendly design
- Small footprint - i.e. not much space required
- Cost-effective variants
- Tailor-made software solutions
- CoDeSys: licence-free programming software