

Series P40



Single Position Controller

P40 Single Position Controller

General: The P40 Single axis position controller is for applications where simple positioning is required. The main advantage of this controller is the easy and fast entry of required positions and quantities. The P40 has an internal program memory for maximum 500 steps. There are two different versions of the controller: one with digital output signals and another with PID +/- 10V analog output for Servo motors. Via optional communication interface the controller can communicate with HOST controllers like PC or PLC.

Product features:

- Simple using
- Diagnostic possibilities
- Digital outputs or relay outputs possible
- Option PID analog output available

Applications

- Woodworking machines
- Band saws
- Grinding machines
- Shears
- Notices
- Break forming machines
- ... and many further applications



Standard functions

- Adjustable positioning output signals
- Display of required and actual position
- Absolute or incremental positioning
- Reference or datuming sequence possibility
- mm/ inch switch
- Pulse multiplication factor
- Tolerance windows
- Software limit
- Backlash compensation
- Up to 500 steps programmable
- Offset calculation
- Measuring system supervision
- Quantity counter
- Manual movement
- 20 offset values
- Non-volatile actual position memory

Technical specifications:

Display	LCD point matrix with background lighting
Connection value	24 VDC, max. 200 mA 24 VAC, max. 20 VA with uploaded outputs and not tightened relays
Pulse generator supply	24 VDC, max. 130 mA
Connection technology	Plug connector
System accuracy	+/- 1 Increment
Actual value memory	10 years (EE-Prom)
Metering frequency	100 KHz
Operating temperature	0... +50 °C
Storage temperature	0... +70 °C
Humidity	not condensing, max. 80 %
Housing	Aluminium, frame construction
Housing dimensions	144 x 144 mm
Outbreak measured	138 x 138 mm
Installation depth	75 mm 83 mm with RIA - connections 110 mm with D-Sub connections
Keyboard	Membrane keypad
Protection factor	IP 43 (in the installation)
Inputs	
Measuring systems	1 measuring system (standard)
Outputs signals statically	PNP (Option - EN:NPN), 300 ms minimum Pulse time/ PIN, max. 10 mA/ input current/ Pin Start, Stop, Reference, chains minus chains plus, departure, fixed position, number of items adding/ subtracting, end position minus, end position plus, System RESET
Outputs	
Output signal	Against clock gradates, caused short circuit proof, Max. 10 mA output current, integrated Freewheeling diodes (bei Option-R floating Relays as normally open contact, max. 5 A bei 230 VAC bzw. max. 2 A bei 24 VDC)
Analog	+/- 10V for DC drives 2- speed controls for AC engines unipolar control incl. direction exits Drive signals, Position reached, automatic controller release, number of items reaches, reference driven runs, Mode of operating hand, mode of operation single



Advice!

The 2 - Axes controller based on that model is in preparation and fulfilled the functionality of a single axis controller with a few restrictions.

Order reference:

When ordering you use please the following order code:

P40 - 000 - 024 - XX - XX - CXXX
A A A - B B B - C C - D D - E E E E

A Version

000 ELGO Standard version

001 First customer version

B Power supply

024 24 VDC (+/- 20%)

C Signal inputs

X axis is not available

1 A, B, Z (PNP) 24 VDC supply measuring system/ 24 VDC-100 KHz

2 A, A', B, B', Z, Z' 24 VDC supply measuring system/ 5V-TTL-100KHz

3 A, A', B, B', Z, Z' 5 VDC supply measuring system/ 5V-TTL-100KHz

4 one analog input (only for second axis)

5 two analog inputs (only for second axis)

D Signal outputs

X axis is not available

0 digital outputs (transistor outputs, PNP)

1 analog output +/- 10V (PID regulated)

- not possible with analog measuring input!

E Options

C Screwing clamps

8 8 digital inputs / 8 digital outputs

S RS232 interface

N digital inputs NPN

X further options are not available

For example:

P40 - 000 - 024 - 15 - 10 - CXSX
A A A - B B B - C C - D D E E E E

P40 standard with 24VDC supply, 1 encoder input with A, B, Z signals and 2 analog inputs, for the first axis controlled analog outputs and for the second axis transistor outputs, connection with screwing clamps and RS232 interface.

Your Order:

P40 - 000 - 024 - CC - DD - EEEE
A A A - B B B - C C - D D - E E E E

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Measure - Control - Position

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