

Series P40-001



Application wide belt sander

P40-001 Application wide belt sander

General: The single axis controller *P40* will be applicable to easy positioning tasks. An important feature is primary the easy structured function menu. It allows, quickly and comfortable, to set the target values, if necessary a specific quantity or auxiliary functions. Target and actual value of the axes plus quantity will be displayed on the front panel. The keyboard is simply and user-friendly.

The controller has a high frequency input for encoders, to measure the displacement. With the second encoder input speed of the belt can be displayed and controlled. It works in an analog mode.

The *P40* series has an internal program memory with up to 500 lines. For the positioning two different kinds of output signals are available: Switching off positioning and PID-Analogoutput for Servo-Controllers.

The *P40* series can alternatively be supplied with 24VDC or 24VAC. An optional serial interface allows data transmission an communication with a superior system.

Product features:

- Easy operating and handling
- Integrated diagnostic mode
- Relay- or digital outputs (+24 V-PNP) possible
- PID-analog-output available
- PC-interface
- S/w monochrome display



Application belt sander machine

- Height adjustment
- Belt speed control
- Batch counter
- PC-communication
- Material chart
- 20 offsets
- Inputs for joystick control

Standard functions:

- Adjustable positioning output signals (3 different speed rates)
- Visualisation of the actual and the programmed position
- Absolute - or incremental positioning
- Datum value and gauging
- Mm/inch - switchover
- Impulse factor and multi edge counter
- Tolerance window
- Software end position monitoring
- Loop operation
- Up to 500 lines program memory
- Saw blade/tool compensation
- Encoder monitoring
- Batch counter
- Manual operating mode
- Stroke control
- 20 offsets
- Retract function
- Actual position memory

Technical specifications:

Display	LCD point matrix with background lighting, 120 x 80 pixels
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
memory	10 years (EE-Prom)
Counting frequency	100 KHz
Operating temperature	0... +50 °C
Storage temperature	0... +70 °C
Humidity	Noch condensing, max. 80%
Housing	Aluminium, frame construction
Housing dimensions	144 x 144 mm
Output dimensions	138 x 138 mm
Installation depth	75 mm 83 mm mit RIA - connections 110 mm mit D-Sub connections
Keyboard	Foil, short-stroke-grope
Protection class	IP 43 (in the installation)
Inputs	
Measuring systems	1 measuring system (standard)
Input 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

Order reference:

When ordering you use please the following order code:

P40 - 001 - 024 - X - X - ---
A A A - B B B - C C - D D - E E E E

A Version

001 Application Wide Belt Grinding Machine

B Power supply

024 24 VDC (+/- 20%)

C Signal inputs

X not assigned
0 A, B, (PNP) 24 VDC supply measuring system/ 24 VDC-100 KHz
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

D Signal outputs

X not assigned
0 Digital outputs (transistor outputs, PNP)
1 Analog output +/-10V (PID regulated)
- not possible with analog measuring input!

E Options

X not assigned
C Screw clamps
8 8 digital Inputs / 8 digital outputs
S RS232 Interface
N digital Inputs NPN

For example:

P40 - 001 - 024 - 1X - 1X - CSXX
A A A - B B B - C C - D D E E E E

P40 - Application Wide Belt grinding machine with 24VDC supply, one input with A, B, Z signal and one analog output +/- 10V (PID regulated), connection with screw clamps and RS232 interface.

Your Order:

P40 - 001 - 024 - X - X - ---
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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