Series 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 VCD, 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
No 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 grades, 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 - 0 0 1 - 0 2 4 - 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’, Z, Z’ 24 VDC supply measuring system/ 5V-TTL-100KHz
3  A, A’, 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
B  8 digital Inputs / 8 digital outputs
S  RS232 Interface
N  digital Inputs NPN

For example:
P 40 - 0 0 1 - 0 2 4 - 1 X - 1 X - C S X X
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 - 0 0 1 - 0 2 4 - X - X - A A A - B B B - C C - D D - E E E E