

Series P40

Compact Position Controller for Guillotine Shear Applications



- Positioning of backgauge, gap and angle
- Manual inching, single or program operation
- 16 freely configurable inputs and outputs
- Programm memory with 500 blocks
- LCD display with four menu languages
- Optionally with 12 bit analog output (selectively PID or unregulated)
- Material depending voltage output
- Simple and intuitive handling
- Integrated diagnosis mode
- Easy panel installation

P40-002 - Compact Position Controller for Guillotine Shear Applications

General:

The compact positioning controller **P40-002** was designed for simple positioning applications on guillotine shears. The focus is on the easy, convenient and fast input of a target value, optionally a number of pieces as well as a cutting angle (auxiliary axis) or a cutting gap (auxiliary axis). The actual value, target value and quantity are displayed on the control panel via an easy-to-read LCD display. The target value as well as the desired quantity can be entered via the keypad and positioning can be started and stopped via front start button.

The cutting angle or cutting gap can be displayed and positioned via the second encoder input. This encoder input can optionally be designed for analog measuring systems (see "Drive signals for positioning" below).

Program Memory:

In addition to manual inching and single operation, the **P40-002** controller has a program mode that can be activated directly by the program key on the front panel. The program memory is designed for a maximum of 500 blocks.

Standard Functions:

- Adjustable positioning output signals (3 different speeds)
- Visualization of the actual and the programmed position
- Absolute or incremental measurement positioning
- Reference value and gauging
- mm/inch - switchover
- Impulse factor and multi edge counter
- Tolerance window
- Software end limit monitoring
- Loop operation
- Program memory with up to 500 blocks
- Tool compensation
- Encoder monitoring
- Batch counter
- Manual inching mode
- Stroke control
- 20 offsets
- Retract function
- Actual position memory

Guillotine Shear Application:



- Positioning off the backgauge axis
- Cutting gap / cutting angle control
- Material table for the auxiliary axes cutting angle and cutting gap
- Metal shear specific parameters e.g. knife length, cutting time, knife lowering time

Signal Inputs:

Depending on the encoder or measuring system used, the inputs for 1 or 2 axes can be configured individually. Conventional square wave inputs with HTL or differential TTL characteristics are available. When using analog measuring systems for the auxiliary axes cutting angle and cutting gap, the controller can also be equipped with 1 or 2 analog inputs. Combinations of digital and analog inputs are also possible. However, the restrictions listed in the type code should be taken into account.

Drive Signals for Positioning:

Three different versions of output signals are available for positioning:

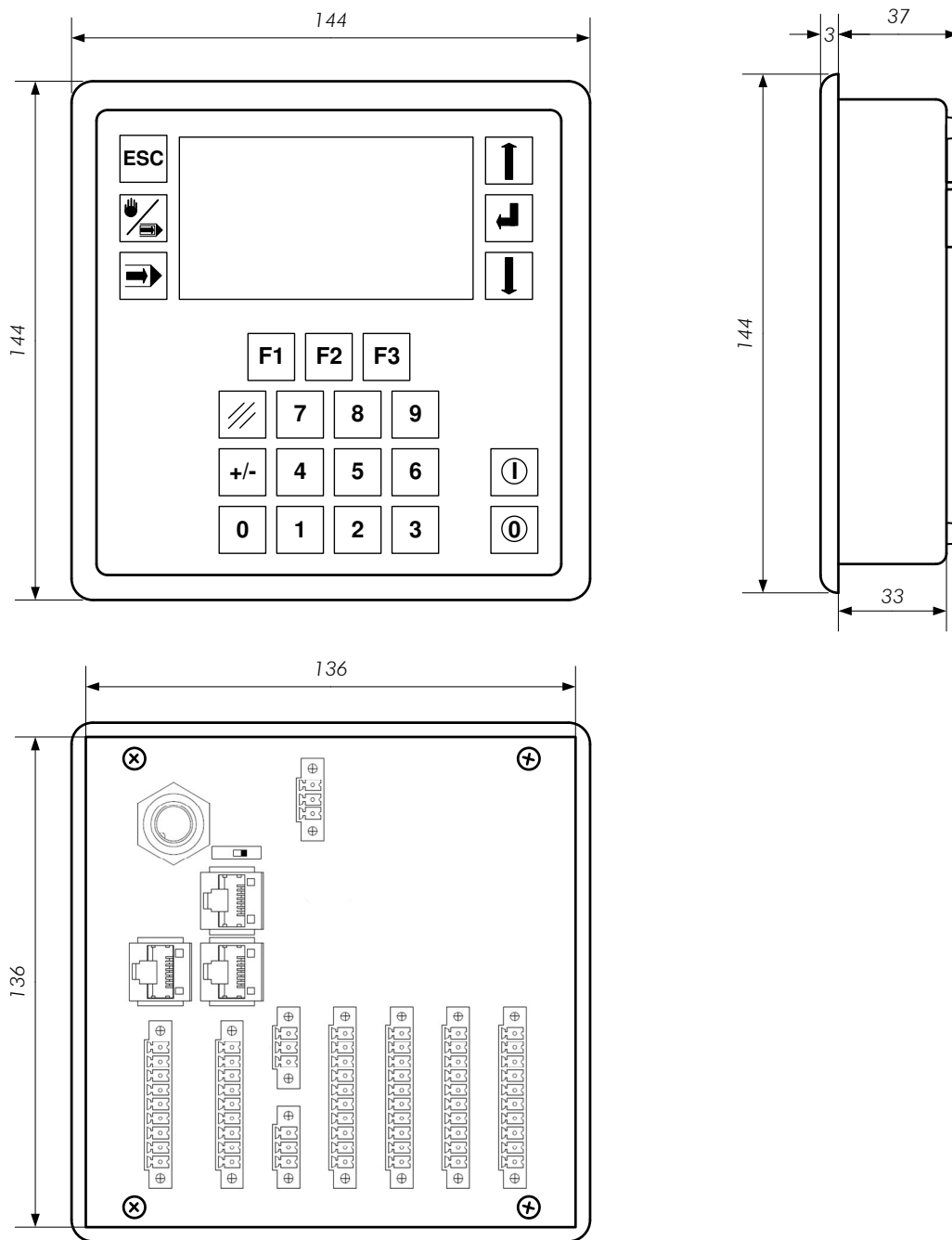
1. Switch-off positioning with up to 3 speeds via digital outputs.
The assignment and logic (active HIGH/LOW) can be parametrized.
2. Optionally via unregulated 12 bit analog output (± 10 V)
3. Optionally via regulated 12 bit PID analog output (± 10 V)

(order codes see type designation)

Digital I/Os

For diverse control commands, the **P40-002** controller is equipped with 16 digital PNP inputs and outputs whose pin assignment and switching logic are freely configurable via parameters.

P40-002 Dimensions:



P40-002 Accessories:

Order Designation	Description
NG13	Power pack for AC-supply (primary: 115/230 VAC, secondary: 24 VDC/600 mA)
RP8	Relay card with 8 changeover relays (28 VDC/250 VAC / 12 A)
P40 Interface Cable	Interface cable for PC connection (with RJ45 plug and female 9-pin SUB-D)

