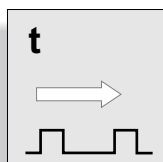
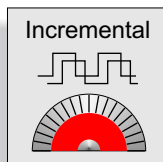




CPS 300

Compact Positioning Controller

- Multi-axis controller 1 to 6 axes with linear interpolation
- 32 inputs (41 from 4 axes on)
- 16 outputs
- easy individual adaptation
- comfortable operating
- easiest programming
- large display
- clearly arranged keyboard
- storage of programm and parameter data on PC through software KLEWin (optional)



Multi axes controller CPS 300

The CPS 300 is a free programmable CNC position controller for universal applications in machines equipped with up to 6 axes. The CPS 300 can even control the entire function in a large range of applications. PLC functions are accomplished with 16 inputs and 16 outputs which can be processed within the program flow. Various parameters provide facilities for easy adaptations to countless machine configurations. In every record of a program, a complete functional group (i.e. positions for all axes) can be programmed. The large display is clearly arranged.

Easy operating

Operating is exclusively done via clear-text menus and special function keys. This kind of operating is uniform to all operating modes.

The keyboard is split into an input area and an operating area. This simplifies handling.

Programming is realized without the usual cryptic commands. Programming is menu-guided and supported with clear text input masks. Thus, no programming experience is required.

Handling is very simple. This reduces time and costs for setting up operation and getting acquainted with the CPS 300.

Individual adapting

Various special functions can individually be adapted by parameters. A few examples:

- piece counter (3 modes)
- start signal handling (4 modes)
- programmable travel limitations
- position display (variable number of digits)
- gear factor etc., for each axle separate

Certain operation modes can also be adapted individually, p.e. reference run:

- order of axes
- process of running reference (each axle separate)
- speeds (each axle separate)

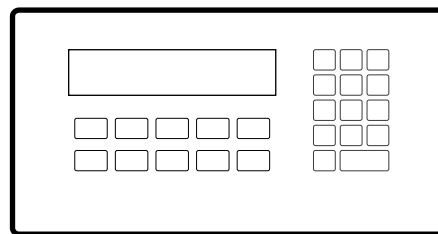
All parameters are arranged into functional groups and protected by passwords.

Function scheme

Options:

3 analog inputs (10 bit res.) →

RS485 serial interface ←→



Absolute position feedback with SSI (synchronous serial interface) or direct processing of magentostriptive transducers. (P/Start-Stop interface)

16/25 inputs status, operation modes and limit switches

← 16 programmable inputs

→ 16 outputs

→ controller release contacts

←→ RS232 serial interface

Some outputs are fixed assigned to status signals.

Operating modes

- Automatic
 - Single step
 - Cycle run
 - Continuous run
- Manual mode
 - Rapid motion
 - Creep speed
 - Step-by-step
 - Position presetting
 - Zero point setting
 - Teach-in programming
- Reference run
- Program input
- Parameter input
 - Controller data
 - Machine data
 - Reference run
- Speeds
- Password setting
- Error diagnosis
- Data transmission
 - Storage (KLEWin)
 - Programming interface (DIN66025, optional)

Technical Data

- 1-6 axes, each one
 - set-value output -10..+10V (12 Bit res.)
 - encoder input up to 250kHz
 - controller release (potential-free contact)
- 1 auxiliary axle set-value 0..+10V (res.8 bit)
- 32 (max.41) signal inputs 24V 10mA
- 16 signal outputs 24V 0,5A
 - short-circuit proof transistor outputs
- Regulating time 2ms (3ms 4-6 axis)
- Serial interface RS232C
- LCD-Display 4x40 characters, illuminated
 - all messages in clear text
- Membrane keyboard, tactile acknowledge
- Program storage
 - 99 programs, with a total of up to 2000 records, power-fail safe
- Clamping plug connectors
- Operating voltage 85...264V AC; 50/60Hz
- Operating temperature 0-45°C (32...113°F)
- Dimensions WxHxD
 - 320x170x95 mm (up to 3 axes)
 - 320x170x115 mm (4-6 axes)

Programming

- Positioning
 - absolute
 - relative
 - linear interpolation
- M-Functions
 - set
 - reset
 - pulse output
 - set and wait for acknowledge
- Reference run
- Set to zero
- Control commands
 - Jump
 - Loop
 - Subprogram call
 - Dwell time
 - Set-value of auxiliary axle
- Input inquiry
 - Conditional jump
 - Conditional call
 - Wait for condition
- Supplementary functions
 - Stop
 - Consecutive records

All data in this brochure have an informative character without warranty of characteristics. Changes without previous announcement reserved.

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