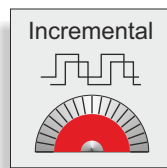




CPS20

Compact Positioning System

Free programmable CNC controller
for universal applications
with position controlled drives.



CPS20 Compact Positioning System

Keyboard panel, position controller and processing unit are combined to a very compact device, therefore easy to embed in a control console or a 19" rack.

Built in digital position controller with linear ramp or, for softer acceleration, with \sin^2 -shaped ramp.

Easy and comfortable handling and programming by keyboard and menu-based clear text display (no codings).

Application fields include particularly specialized machinery and production machinery. Special purpose programs for applications like rotary indexing tables or roll-feed-machines (and more special applications) are available.

Main features:

- mode selection by menus
- clear text display (illuminated)
- auto starting up to reference point selectable
- automatic or manual mode of operation
- free programming of all parameters
- password protected machinery parameters
- machinery-specific adaptations
- 90 programs
- 180 sets (extendable up to 800) (safe against power failures)
- acceleration ramp and deceleration ramp programmable
- linear or \sin^2 ramp for choice
- velocities free programmable
- incremental position acquisition
- error diagnosis with messages in clear text
- high noise immunity through electrically insulated inputs and outputs
- short-circuit-proof transistorised outputs
- plug and socket connections for ease in handling

Options:

- absolute position acquisition (SSI interface)
- analog input (12 bit resolution) for special applications on request
- second incremental encoder interface for a measurement wheel or handwheel
- RS232 (CCITT V 24) interface

Technical characteristics CPS 20

number of axes	1	max. velocity	99.99 m / min at 0,1 mm resolution
input display	membrane keyboard LCD display (clear text) 2 x 24 char. illuminated	max. incremental encoder frequency	250 kHz (internally multiplied with 4)
programs in memory	90	position acquisition	incremental, absolute (SSI interface),
programmable sets	180 (extendable up to 800) safe against power failure	signal inputs	8 inputs 24 V 10 mA (extendable to 10 inputs)
gear ratio	6 digits (decimal)	signal outputs	6 outputs 24 V 1A (extendable to 10 outputs)
reference point move	yes	analog output connections	+/- 10V (12 bit resolution) solderless plug/socket conn.
pulse start	yes	power supply	24 V DC (+/-20%) approx. 0.3A
start timing check	yes	ambient temperature	0 to +45°C
stop with subsequent position correction	yes	size (w * h * d)	213 x 133 x 75 mm
error diagnosis	clear text messages		
linear ramp	yes		
\sin^2 ramp	yes		
acceleration and deceleration ramp	10 - 10000 ms		

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