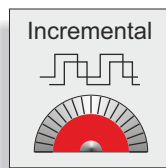




CPS20

Compact Positioning System

Freely 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 easily 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 freely 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 CPS20

Number of axes	1	Max. velocity	99.99 m / min at 0,1 mm resolution
Input	Membrane keyboard	Max. incremental encoder frequency	250 kHz (internally multiplied with 4)
Display	LCD display (clear text) 2 x 24 char. illuminated	Position acquisition	incremental, absolute (SSI interface),
Programs in memory	90	Signal inputs	8 inputs 24 V 10 mA (extendable to 10 inputs)
Programmable sets	180 (extendable up to 800) safe against power failure	Signal outputs	6 outputs 24 V 1A (extendable to 10 outputs)
Gear ratio	6 digits (decimal)	Analog output	+/-10 V (12 bit resolution)
Reference point move	yes	Connections	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		Size (W x H x D)	213 x 133 x 75 mm
Position correction	yes		
Error diagnosis	clear text messages		
Linear ramp	yes		
\sin^2 -ramp	yes		
Acceleration and deceleration ramp	10 - 10.000 ms		

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

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