



DNS20

Dynamic Cam Controller

- Dead-time compensation adjustable for each cam
- 2 ON and OFF switchpoints each cam
- 12 cams freely programmable
- Feed monitor assignable to each cam
- Ejection monitor assignable to each cam
- Teach-In programming feasible
- Assignable inputs



Order data:

DNS20.000.242.2
DNS20.000.252.2
AG1-4096-5

Cam controller standard
Cam controller with RS232 interface
Absolute encoder 4096 increments each rev.

DNS 20 Dynamic cam controller

Electronic cam controller for universal applications based on a high performance micro-controller.

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

Only a SSI absolute encoder is required to get the system ready to run.

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

Dynamic dead-time compensation means rpm-dependent shifting of switchpoints to compensate for response time of peripherals. Adjustable for each cam.

- Selection of operating mode is menu-driven
- Clear text display (illuminated)
- All parameters freely programmable
- Password protected machinery parameters
- Machinery specific adaptations
- 99 Programms can be stored (power-fail safe)
- Output state is displayed
- rpm and angle is displayed

- Automatic run external preselectable
- Programm selection through keyboard or host-computer
- Teach-in mode during programm run can be externaly locked out.
- Manual change of switchpoints during programm run possible
- Absolute position acquisition (SSI-interface) therefore no reference run neccessary.
- Diagnosis with clear text messages.
- High noise immunity through electrically insulated inputs and outputs.
- Short-circuit proof transistor outputs
- Connectors for good serviceability.

Options:

- Programm selection via serial Interface (RS232C)

Applications:

- Switching
- Controlling
- Positioning
- Monitoring

Technical Data DNS 20

Input	Membrane key with tactile acknowledgement	Number of cams	12 (10 external)
Display	LCD - Display (clear text) 2 x 24 charact. illuminated for angle, rpm and ouput-state.	Number of switchpoints	2 On- /2 Off-switchpoints each cam.
Programms in memory	99 (power-fail safe)	Input-functions	max. 8 e.g. Tool monitoring Feed monitoring Ejection monitoring
Position acquisition	Absolute encoder with SSI-interface	Inputs	8 Inputs; 24 V; 10 mA with selectable functions (e.g. key-switch, etc.)
Max. resolution	0,2 degree (11 Bit)	Outputs	10 Outputs; 24 V; 0,8 A
Dead-time compensation	0 - 999 ms separately programmable for each cam.	Connections	plug, spring-type terminal
Response time	500 µs	Power supply	24 V DC approx. 0,3 A Optional: mains module 230 V; 50 Hz
		Ambient temperature	0 ... + 50°C
		Dimensions (WxDxH)	213 x 133 x 75 mm

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