

## AN528 Servo Amplifier



**The amplifier AN528 was developed to control proportional valves in a closed-loop control. The AN527 is used as a basic unit. By connecting a special module it is possible to drive the AN527 as the AN528 together with positioning controlled proportional valves.**

The AN527 is only used to control proportional valves. Therefore, as this board is not only an amplifier for controlled valves (AN527) but also the basis for the closed-loop controller (AN528) it is not completely packed, and some different adjustment possibilities are not described, if it's used as the AN527.

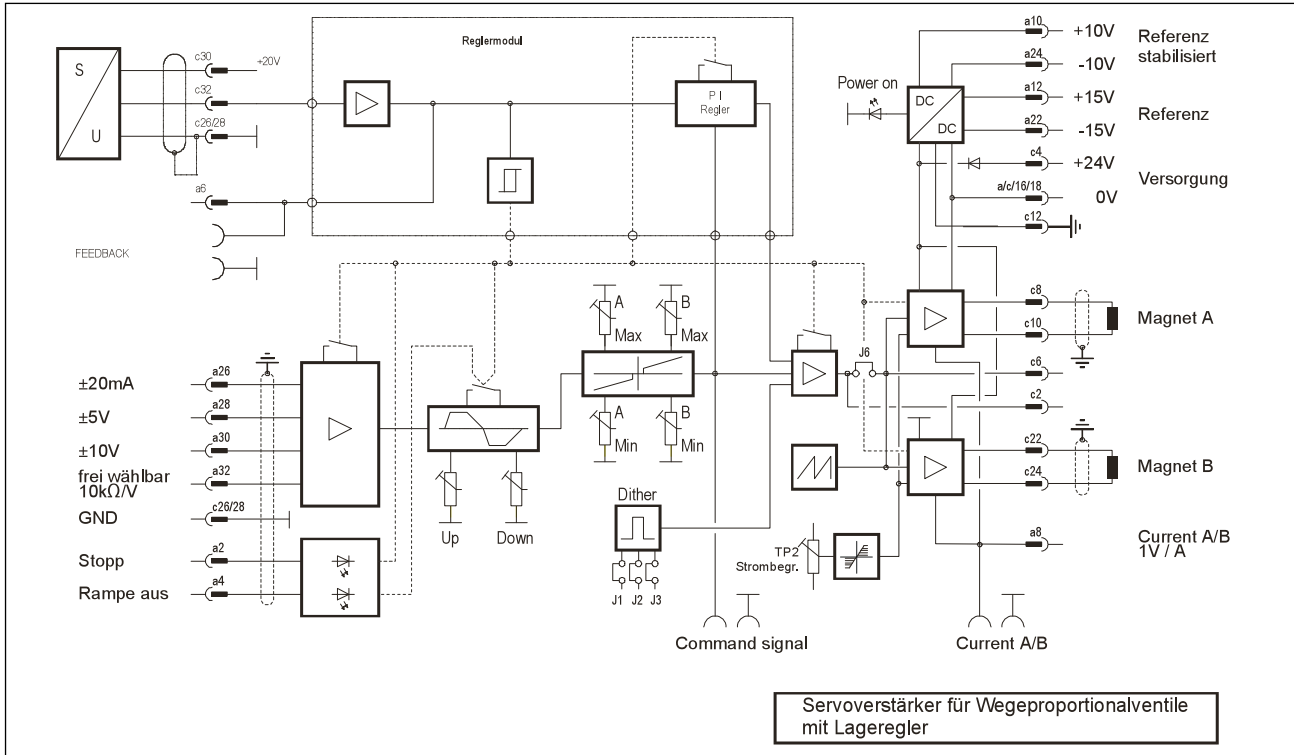
### Features:

- Secured against wrong polarity
- Secure of short-circuit
- External switch-off ramp
- Ramp with quadrant identification
- Wide range of ramp adjustment
- External enable (no-load current circuit)
- Test jack for: desired value, valve current, displacement pick-up signal
- Same potential of: minus of the supply voltage  
zero-potential of the inputs  
zero-potential of the reference voltage
- PWM - output stages (high dynamic)
- 4 different inputs for the most popular input-voltages and -currents, allows very flexible input switching
- LED indication for: Power on, Ramp off, Fail safe
- Potentiometer for: Ramp time, Zero overlapping, gain

# PEES

## COMPONENTS

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#### Technical Data:

Dimensions (overall dim.)	Eurocard format (160x100)mm (40.5x128.7x189.7)mm (WxHxD), Front plate 3HUx8SU
Connection	32 pin connector DIN 41612 D32
Supply voltage	24V DC (20-32V DC)
Reference voltages	±10V, 10mA, stabilised ±15V, 25mA, un stabilised
Output current	$I_{max} = 2600 \text{ mA}$ , 3 plug-selectable ranges: (0-800mA, 0-1600mA, 0-2600mA)
PWM frequency	Approx. 5.5 kHz
Short-circuit protection	for output stage and reference voltages
Signal inputs	1x ±20mA, 100Ω 1x ±5V, 50kΩ 1x ±10V, 100kΩ 1x user selectable 10kΩ/V
Dither	3 plug-selectable ranges (100 Hz, 140Hz, 280 Hz) Adjustable amplitude, approx. 0-10% of rated current.
Ramp times	Ramp up/down independently adjustable, 0.2-10sec 20%
Ramp off	Input voltage 24V, 10kΩ, Indication by LED 'Ramp off'
Stop	Normally closed circuit, Input voltage 24V, 10kΩ Indication by LED 'Fail safe'
Measurement sockets (ø 2 mm)	VALVE CURRENT: 1V = 1A, ±8%, COMMAND SIG: desired signal ±10V depends on the input voltage FEEDBACK: displacement pick-up signal ± 5V