

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.

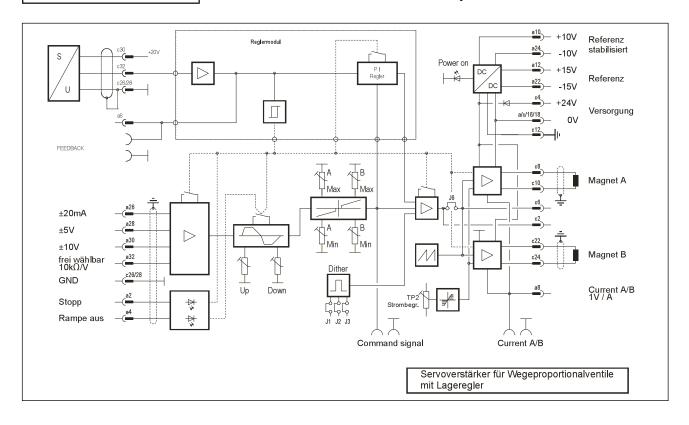
Features:

- · 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



COMPONENTS

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Technical Data:

Eurocard format (160x100)mm
(40.5x128.7x189.7)mm (WxHxD), Front plate 3HUx8SU
32 pin connector DIN 41612 D32
24V DC (20-32V DC)
±10V, 10mA, stabilised
±15V, 25mA, unstabilised
Imax = 2600 mA, 3 plug-selectable ranges: (0-800mA, 0-1600mA, 0-2600mA)
Approx. 5.5 kHz
for output stage and reference voltages
1x ±20mA, 100Ω
1x ±5V, 50kΩ
1x ±10V, 100kΩ
1x user selectable $10k\Omega/V$
3 plug-selectable ranges (100 Hz, 140Hz, 280 Hz)
Adjustable amplitude, approx. 0–10% of rated current.
Ramp up/down independently adjustable, 0.2–10sec 20%
Input voltage 24V, $10k\Omega$, Indication by LED 'Ramp off'
Normally closed circuit, Input voltage 24V, 10kΩ
Indication by LED 'Fail safe'
VALVE CURRENT: 1V = 1A, ±8%,
COMMAND SIG: desired signal ±10V depends on the input voltage
FEEDBACK: displacement pick-up signal ± 5V