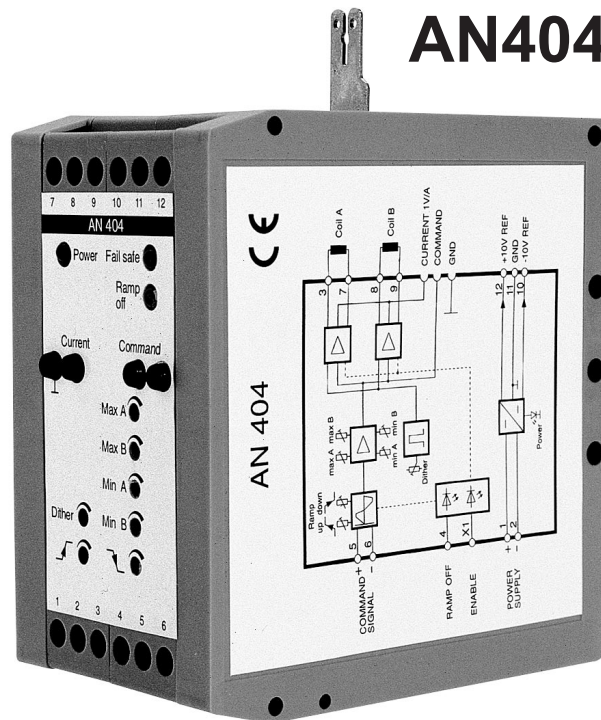


## AN404 Servo Amplifier



The AN404 servo amplifier module is intended for the control of proportional valves with two magnets.

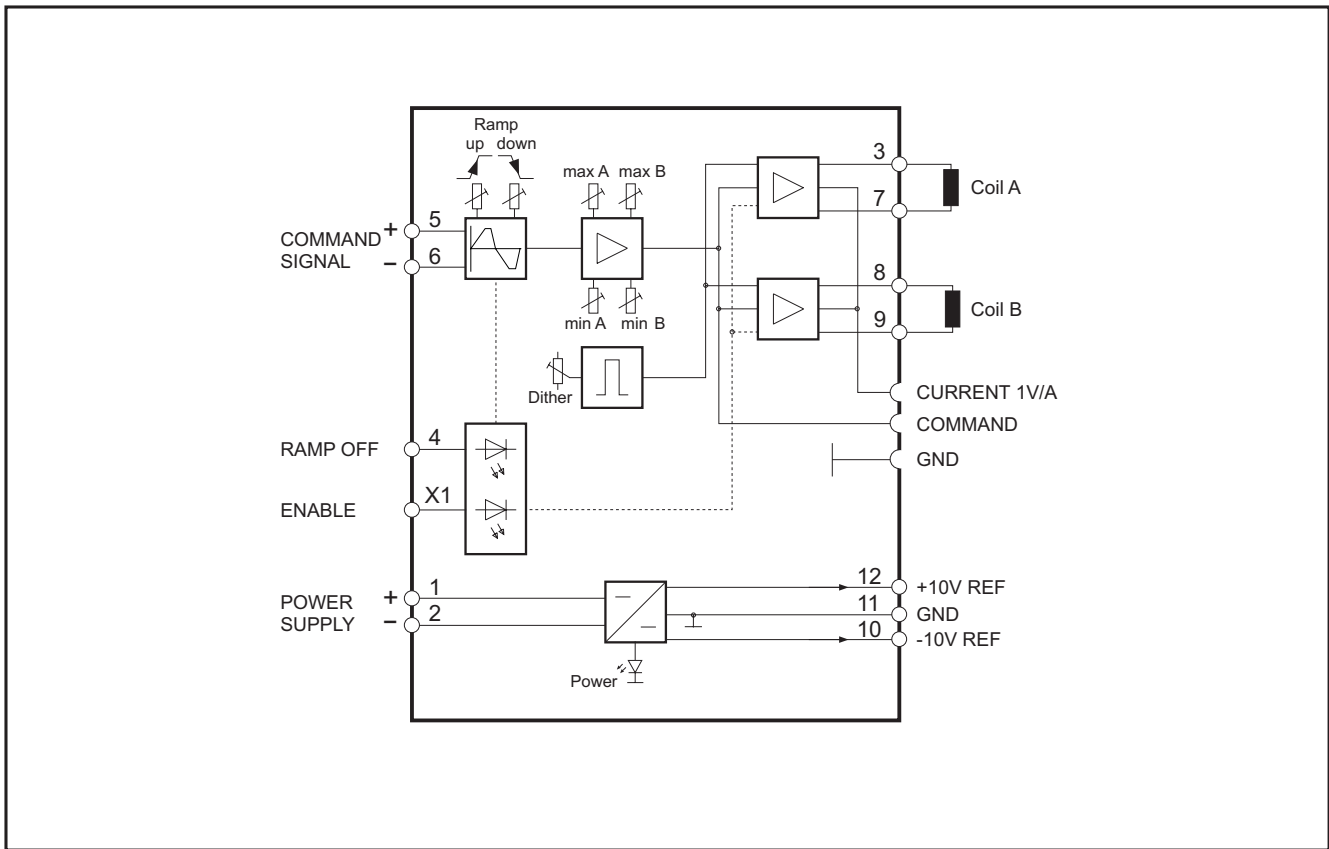
The snap-on housing enables the AN404 module to be mounted on normal carrier rails in control cabinets. The electrical connections are via a terminal strip and a flat connector (enable input).

The output stage is a duplex output stage with high-dynamic response and rapid de-excitation. These design features ensure rapid switch-off of the magnet coil (approx. 4...6 ms).

Four multi-turn resistances allow the adjustment of volumetric flow amplification (max. A, max. B), and Imin jump (min. A, min. B) to be made separately for each magnet.

The module has an integrated quadrant-sensitive ramp generator that allows adjustment of the ramp times (ramp up, ramp down) by means of two multi-turn resistances. The ramp can be switched off externally by an input (ramp off).

# AN404 Servo Amplifier



## Technical data:

Supply voltage	24V DC (22...32 V DC)	Inputs	Various input modules are available: ±10V (differential input) 12mA±8mA (monitored diff. input) ±20mA (differential input)
Auxiliary voltages	To supply an external setpoint potentiometer: +10V, max. 10mA -10V, max. 10 mA	Enable	Input +24V, indication via 'Fail safe' LED
Temperature range	0 - 50 °C	Ramp off	Input +24V, indication via 'ramp off' LED
Dimensions (Overall dim.)	Width:45mm High: 93,5mm Depth: 85,5mm	Measuring sockets	Current: valve current: 1V/A (10%) Command: setpoint signal (10V)
Output stage	Duplex output stage with high dynamic response and rapid de-excitation (approx. 4...6 ms)	Multi-turn Resistors	I <sub>max</sub> : adjustable for magnet coils A & B I <sub>min</sub> : adjustable for magnet coils A & B, up to 50% of I <sub>max</sub> Ramp up: acceleration ramp, adjustable in ratio 1:50 Ramp down: deceleration ramp, adjustable in ratio 1:50
Output current	according to version 0... 800mA 0...1600mA 0...2500mA		
PWM frequency	Approx. 5 kHz		
Dither	approx. 150 Hz factory setting Amplitude adjustable on the 'Dither' potentiometer within a range of approx. 0 - 10% of the nominal current setting		

Subject to change without notice

AN404\_310307\_Rev03