

## The compact piezo amplifier

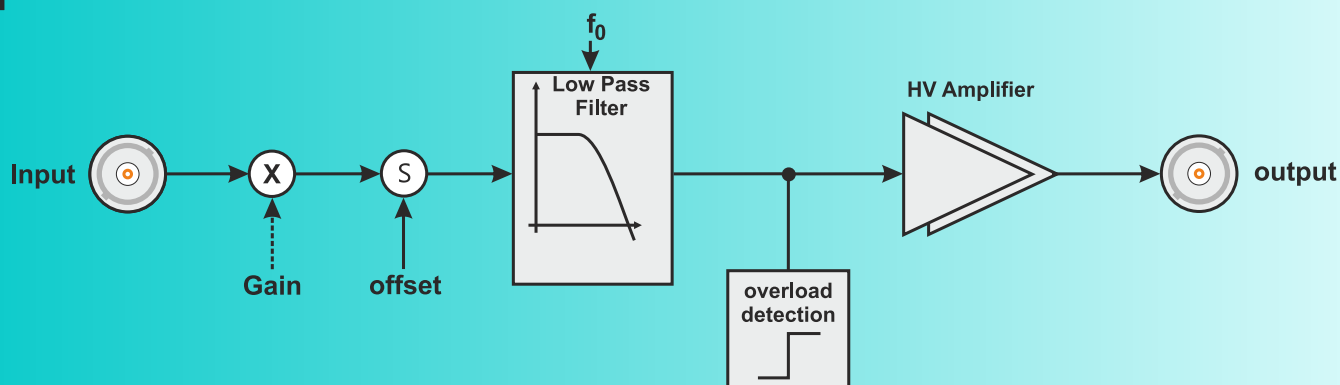


## Function

**The miniPiA is a fast multi-channel high voltage amplifier in a compact design, especially developed for low-noise driving of piezoelectric actuators.**

**Electronic filters serve to suppress mechanical resonance effects.**

## Block Diagram



## Description

Both gain factor and DC output level are individually user adjustable for each channel by means of potentiometers. Moreover, each amplifier is equipped with a second order low-pass filter, the cut-off frequency of which can be adjusted individually as well. By means of these filters, resonances in piezo driven systems can be suppressed. Thus, servo loops show significantly better performance.

## Technical Data

<b>Input voltage range:</b>	-5...+5 V
<b>Gain:</b>	user adjustable (0 ... 15x)
<b>Small-signal bandwidth:</b>	adjustable 150 Hz...8 kHz
<b>Output voltage / current:</b>	0...150 V, 15 mA average per channel, average sum current max. 25mA higher voltage/current values on request!
<b>Housing dimensions:</b>	88 mm x 125 mm x 209 mm (H x W x D)
<b>Supply voltage:</b>	100...120 / 200...240 V, 50...60 Hz
<b>Product variants:</b>	"miniPiA 103": triple channel "miniPiA FiberLock": double channel with multi-pin connectors

## Development, Manufacturing and Distribution



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Specifications are subject to change without notice.