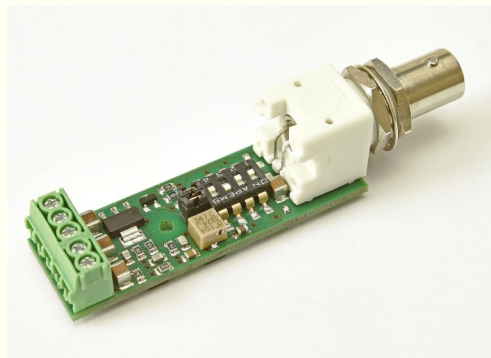
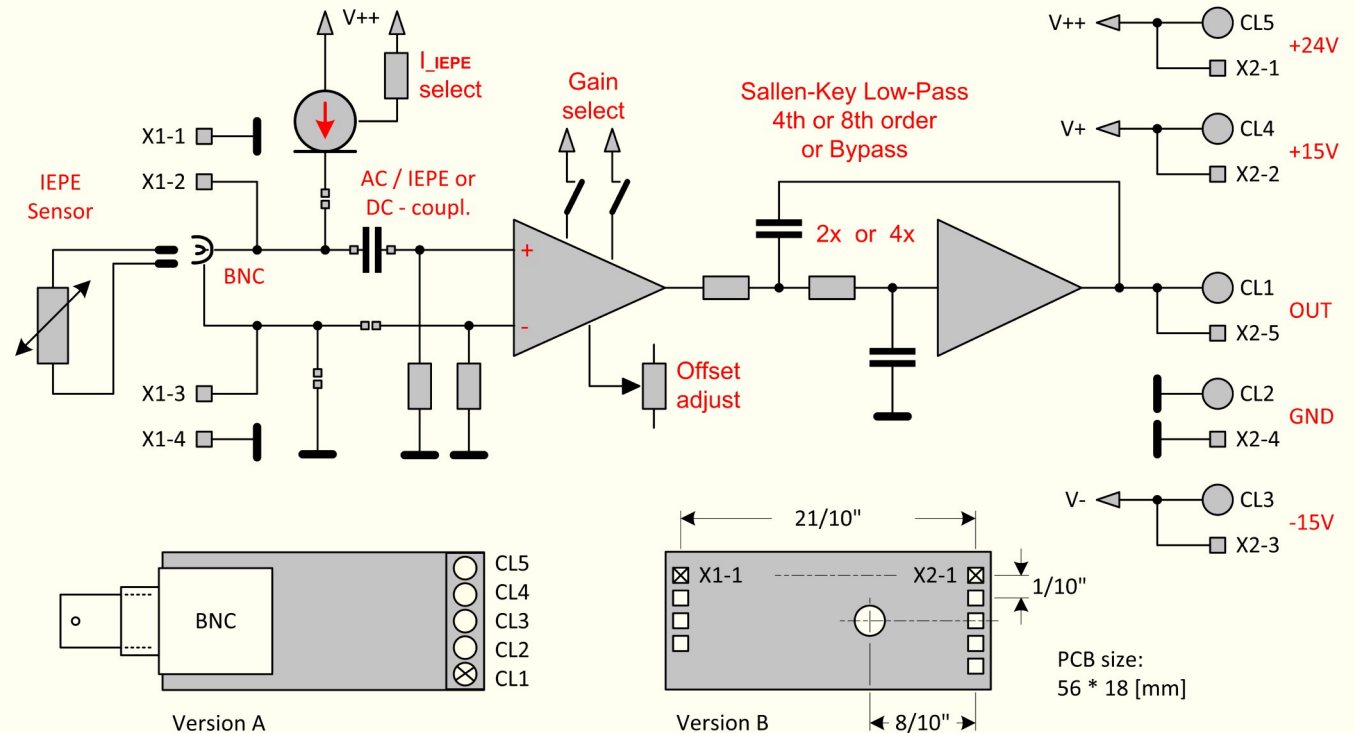


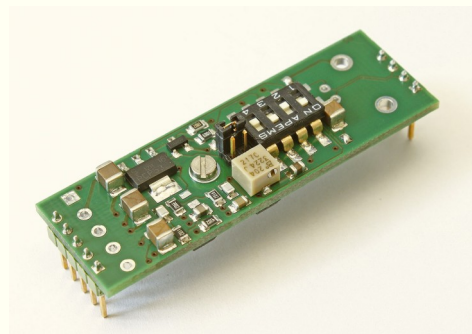
# Create your own **IEPE** transducer measuring device using our versatile signal conditioning front end **IPE-FM3** – special feature: **Active Filters**

## DC / AC or IEPE measuring amplifier plus 4<sup>th</sup> / 8<sup>th</sup> order low-pass filters

- Measuring amplifier for general applications
- Signal conditioner for any IEPE sensor
- Applications: vibration, acceleration, strain and materials testing, general DC / AC amplification
- I<sub>IEPE</sub> excitation: select. constant current 2 - 4 - 6 - 8 mA ± 5 % (-10...70°C)
- AC bandwidth: 0.5 Hz to 25 kHz (-3 dB)
- DC/AC gain: 1 to 1000 (gain > 10 not recommended for AC / IEPE)  
Gain steps 1-2-5-10 and 1-10-100
- DC offset: adjustable (recomm. gain > 1)
- Low-pass filters: (F<sub>cut-off</sub> 500 Hz to 10 kHz)  
config. - no filters  
- 4<sup>th</sup> order Butterworth or Bessel  
- 8<sup>th</sup> order Butterworth or Bessel
- AC input/output signal range  
@ V<sub>Supply</sub> ±12 VDC: V<sub>Signal\_IN-OUT</sub> >= 0 to ±8 V  
@ V<sub>Supply</sub> ±15 VDC: V<sub>Signal\_IN-OUT</sub> >= 0 to ±10 V



Version A - designed for front panel mounting



Version B - designed for main board mounting

## Features

- versatile DC / AC / IEPE front end & active filters
- gain and I<sub>IEPE</sub> selectable by switches / jumpers
- power supply +/-12 to +/-15 VDC and +24 VDC
- mount on front panel (Version A), or simply plug it into main board (Version B)
- customer specific config. of the input-amps and the I<sub>IEPE</sub> excitation
- customer specific config. of the active filters - characteristics and cut-off frequency