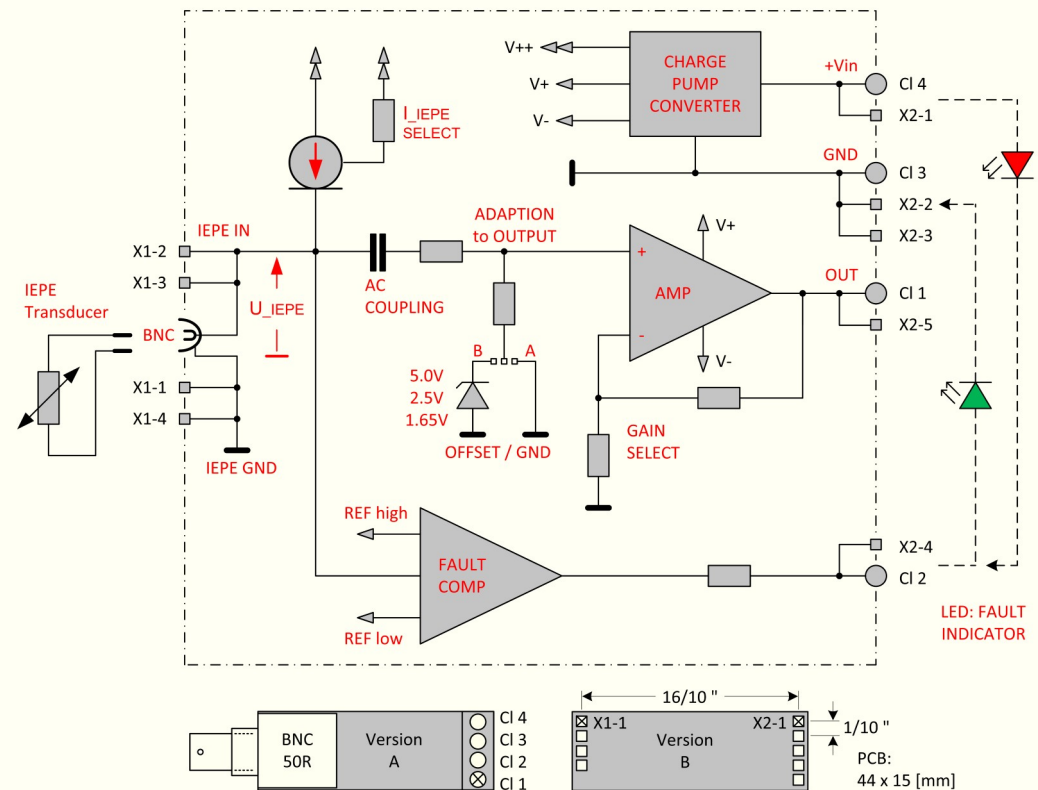


IEPE signal conditioning OEM module IPE-FM4

Single-channel IEPE excitation and amplifier

- Signal conditioner for any smart IEPE transducers
- Applications: vibration, acceleration, sonic and acoustic noise measurement, strain and materials testing
- I_{IEPE} excitation: constant current
2 - 4 - 8 [mA] $\pm 5\%$ (-10 to 70°C) – value specify when ordering
- V_{IEPE} excitation (approx. $V_{in} * 2 - 3V$)
@ $V_{in} = 12\text{ VDC}$: $V_{IEPE} \geq 20\text{ V}$ → signal range 0 to $\pm 8\text{ V}$
@ $V_{in} = 15\text{ VDC}$: $V_{IEPE} \geq 26\text{ V}$ → signal range 0 to $\pm 10\text{ V}$
- AC Bandwidth: 0.5 Hz to 25 kHz (-3dB)
- GAIN: 1 - 2 - 5 [V/V], gain inaccuracy (gain 2 - 5) < 0.3 %
- THD + N: 0.015 % at 1 kHz
- DC offset (OUT): < 5 mV (balanced to GND) or
1.65 V (unbalanced for 0 to 3.3 V Analog-Digital Converters)
2.5 / 5 V (unbalanced for 0 to 5 / 10 V Analog-Digital Converters)
- Power supply: 12 to 15 (max) VDC < 0.5W
- Fault detection: Open circuit or short to GND - indicated by external LED (I_{LED} approx. 3 mA)
Type specify when ordering:
 - LED "green" - ON for normal operation or
 - LED "red" - ON for fault indication
(contact either LED "green" or LED "red", but never both together!)



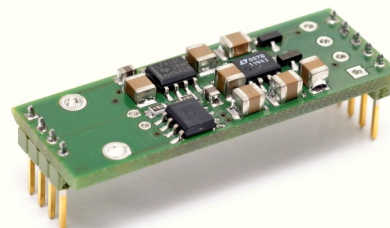
www.eigner-messtechnik.de

info@eigner-messtechnik.de

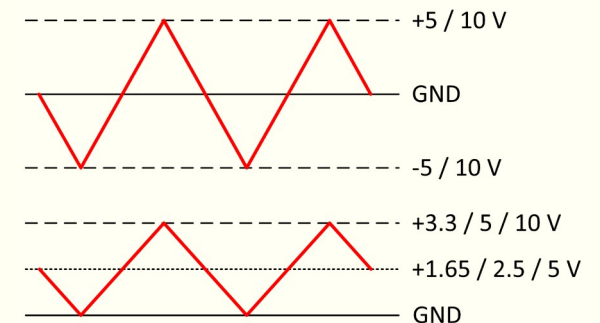
edition dated: 2020-02



Version A - designed for front panel mounting



Version B – designed for main board mounting



Signal output: balanced vs unbalanced