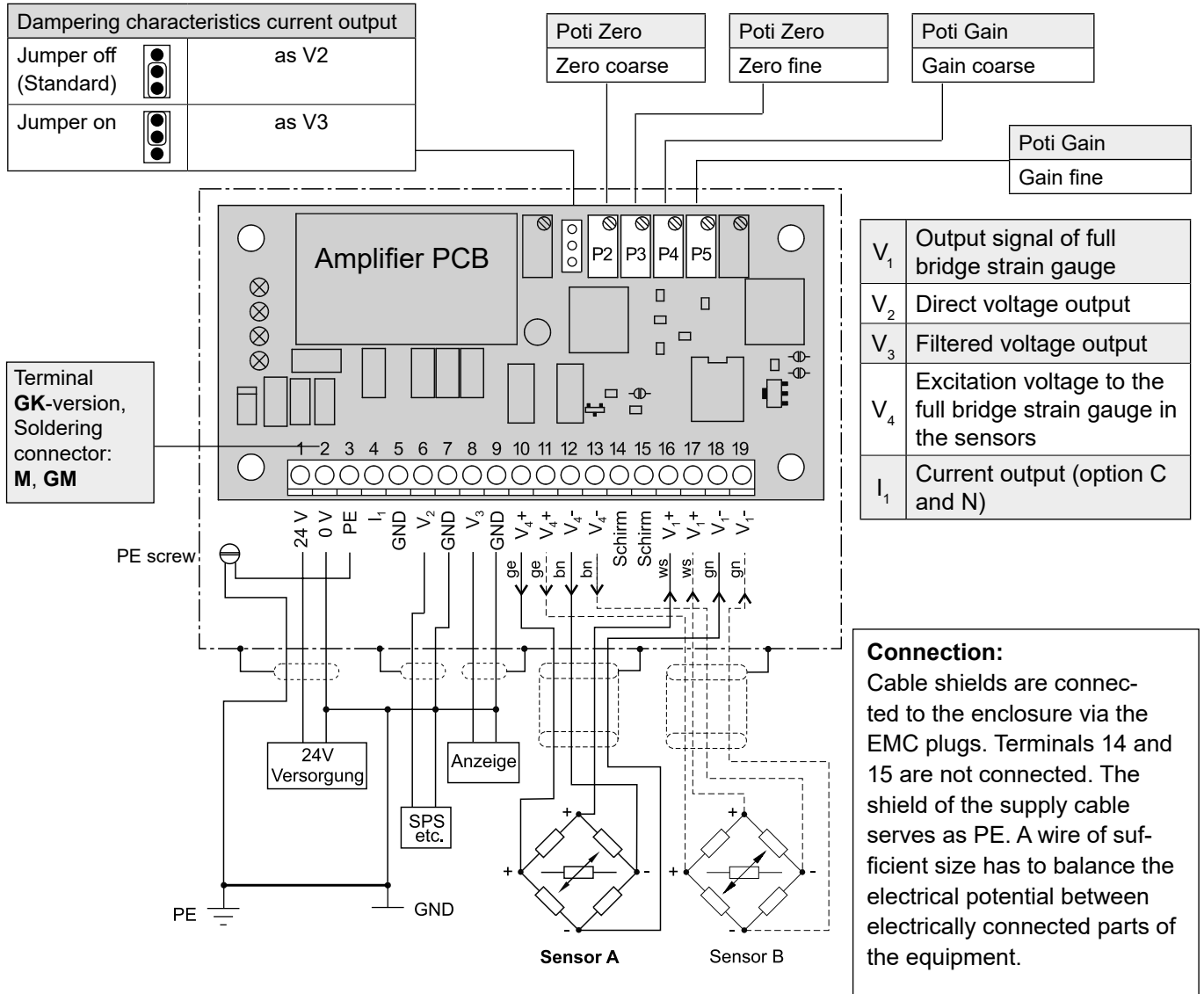


## Measuring Amplifier MV125

### Technical Information

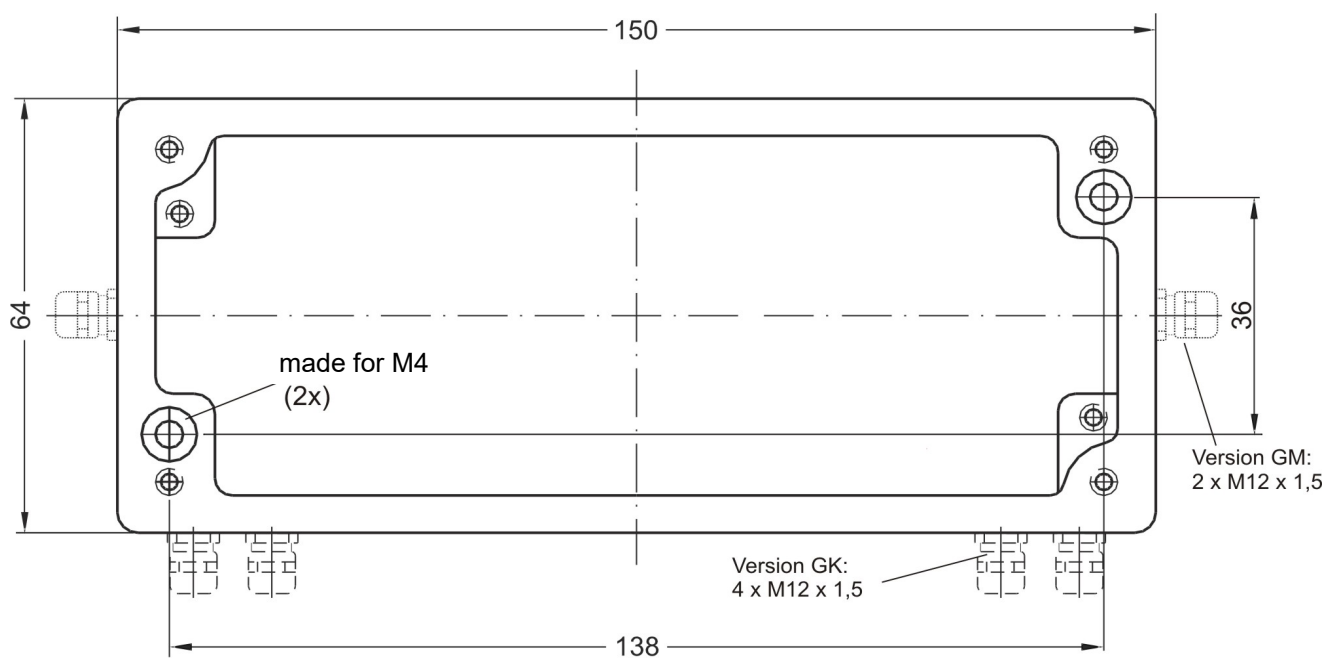


### Amplifier

The following steps are necessary in order to calibrate the measuring system consisting of sensors and MV125:

1. Allow 10 minutes warm-up after applying power in order to achieve stable temperature conditions inside the amplifier.
2. Connect voltage meter to the direct output V<sub>2</sub> of the MV125 (terminal 6 +, terminal 7 -).
3. For zero adjust purposes apply the normal pre-load to the completely mounted sensors but not the regular force acting in the production process. In case of web tension measurement this is the measuring roll, however without the web (paper, foil, ...).
4. Use the zero adjust pots P2 (coarse) and P3 (fine) to set the voltage at the direct output V<sub>2</sub> to 0 V.
5. Switch voltage meter to the measuring range > 10V.
6. For the adjustment of the amplification (gain) apply the calibration load. This force should be about 80 ... 100 % of the nominal force. The output signal V<sub>2</sub> can be adjusted to the desired values with gain pots P4 (coarse) and P5 (fine).
7. Remove the load from the strain gauge sensors and check the output signal. If the zero position differs substantially from the previous zero adjust repeat the calibration steps 3 to 6.

Dimensions of GK and GM design:



Dimensions of M design:

