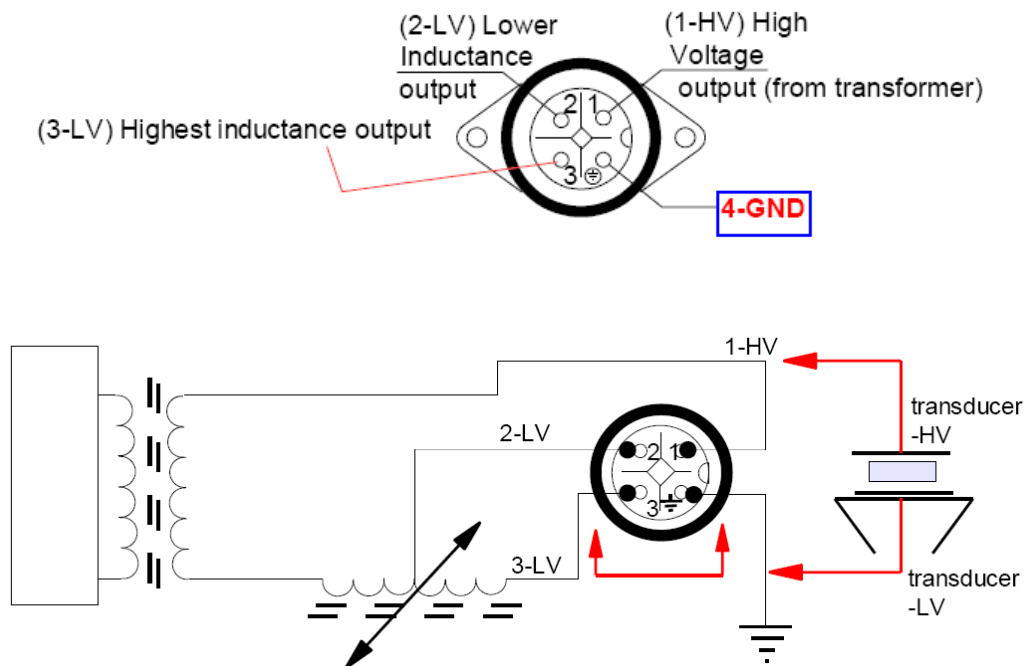


MPI.600.OW: Output HF connector



Connector Terminal 1-HV is the high voltage ultrasonic signal output from the power ferrite transformer of the generator and must be connected to the Isolated (high voltage) terminal of the transducer (central wire of the coaxial cable).

Connector Terminal 2-LV is the lowest regulating range of inductive compensating coil (first output of inductive compensation).

Connector Terminal 3-LV is the highest (maximal) inductance of inductive compensating coil.

Either Connector Terminal 2-LV or Terminal 3-LV (depending how high compensating inductance is necessary to compensate capacitance of applied ultrasonic transducer) must be connected to the grounding pin of the output connector (pin number 4 = GND), which is in the same time the acoustic system ground (equal to the low voltage potential of the transducer mass and housing). Converter mass/ground, generator box, acoustic load mass, and external shielding wire of the coaxial cable are all connected to the system ground pin 4-GND.

Do not connect terminal 2 and terminal 3 to each other. One of them will, in any loading situation, stay open/hanging, and only one of them (2 or 3) will be connected to pin 4-GND and to system mass or system ground. Connection between 2-LV and 4-GND or between 3-LV and 4-GND must be made internally (inside of the generator box).

Ultrasonic converter (coaxial cable) will always be connected to pins 1 (1-HV) and 4 (GND). Pin 1 is always the highest voltage, connected to the isolated input of the converter.

Terminal 4-GND must be always connected to EARTH/Ground/Mass of the transducer.