

DVA211.XXX vibration acceleration sensors with current output



*Only for SPTA

The appearance of the products may differ a little from those presented in the brochure

Features

Designed to measure the vibration acceleration amplitude.
 Consist of a sealed housing that comprises an integral acceleration sensor and a conversion board.
 Depending on the version, the sensor is installed on the unit using the standard threaded stud M8 / M10 / M12, fastening with 3 screws or 1 screw.
 For the .214 version, it is possible to use cable assemblies with the MIL connector of imported transducers.

Metrological parameters

Conversion coefficient, mV*s ² /m		
0.64	0.4	0.16
Measurement ranges for the RMS value of vibration acceleration, m/s ² :		
0-25	0-40	0-100

Operating frequency range, Hz 2-1000;
 3-1000;
 5-1000;
 10-1000

Interface

Type of output signal 4-20 mA current loop
 Supply voltage of the sensor, V 10-24
 Connection polarity random
 Connection via the TIK-PLC controller** or the TIK-BIS safety barrier
 ** The controller operates as ESD, sensor power source, and a safety barrier

Explosion protection

Marking. 0Ex ia IIC T6...T2 Ga X / PO Ex ia I Ma X
 2Ex nA IIC T6...T2 Gc X

Climatic version

Operating temperature range, °C
 • H climatic version -40...+80
 • X climatic version -60...+80
 • K climatic version -196...+80

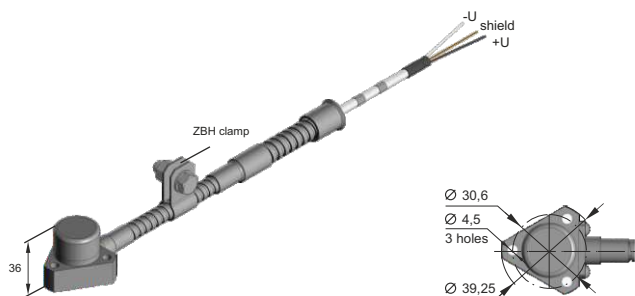
Reliability parameters

MTBF, hours, not less than 40 000
 Design service life, hours, not less than 80 000
 Warranty service life, months 24
 Service life, years 10
 Verification interval, years 2

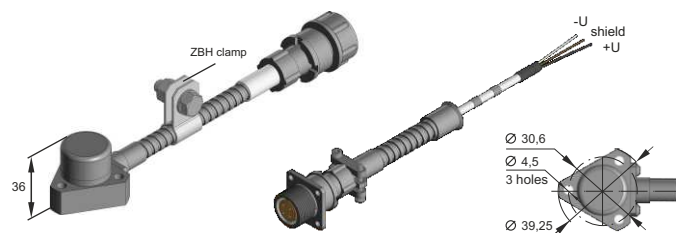


Constructive versions

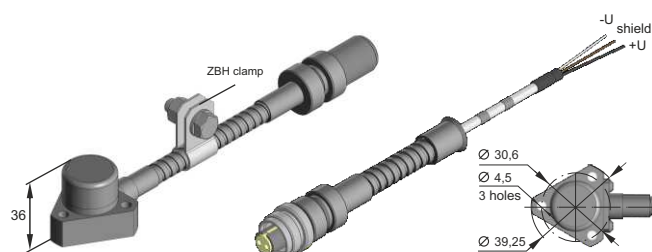
DVA211.104



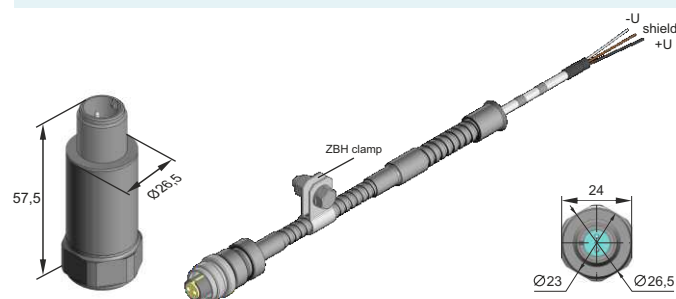
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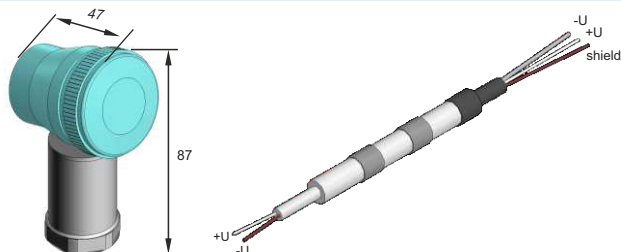
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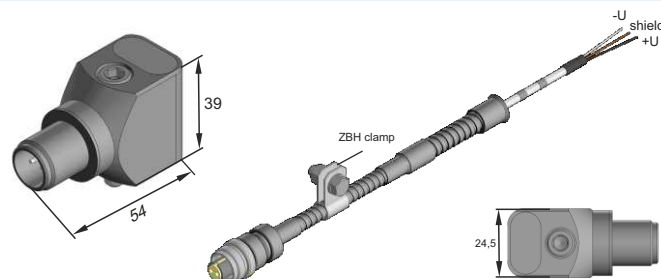
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DVA211.252



DVA211.714



Wiring diagram

