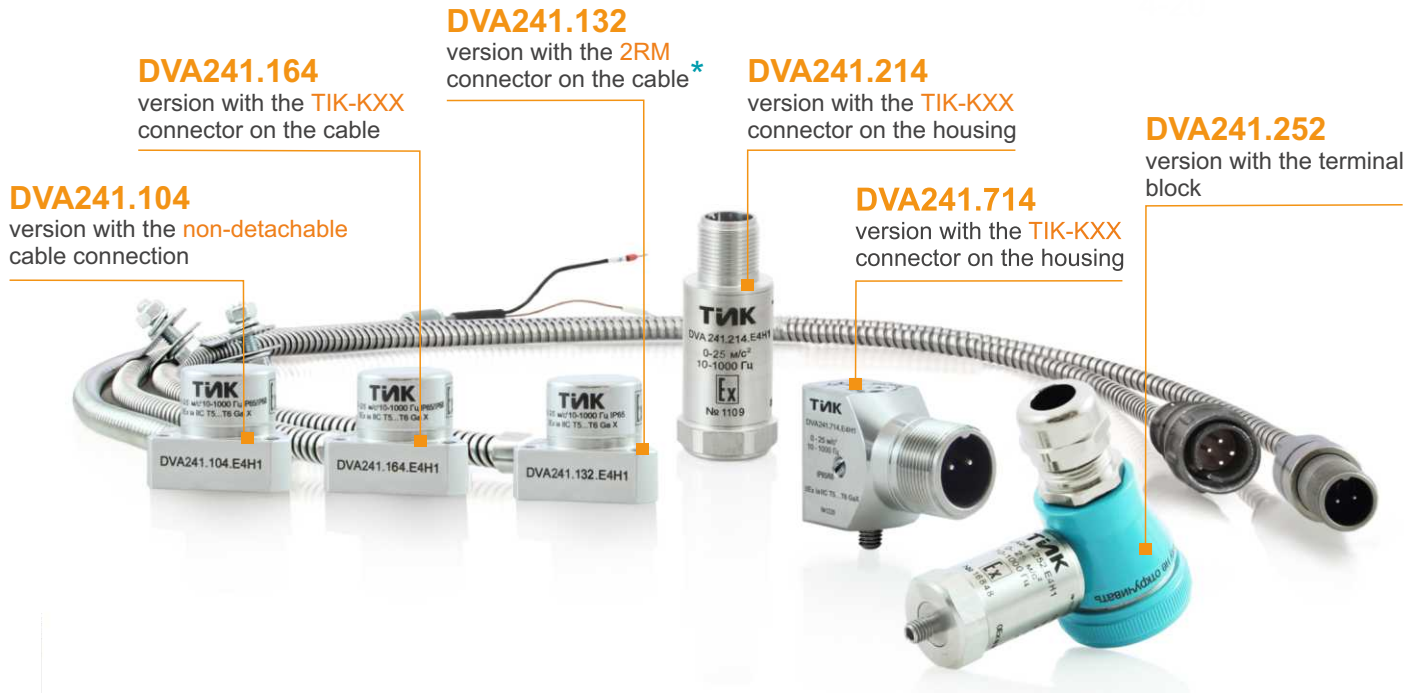


DVA241.XXX vibration acceleration sensors with current output



*Only for SPTA

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

Features

Designed to measure the root-mean-square (RMS) value of vibration acceleration.

Consists 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

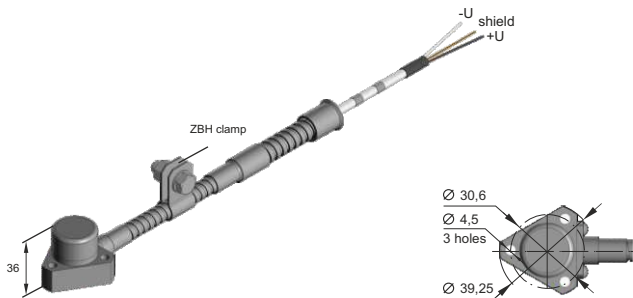
Reliability parameters

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

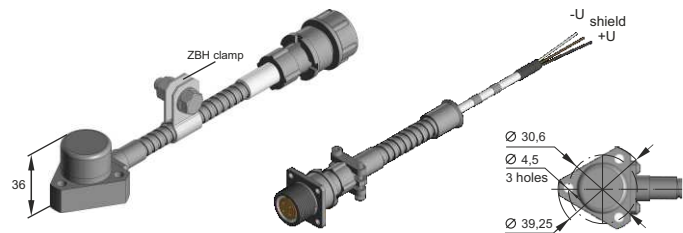


Constructive versions

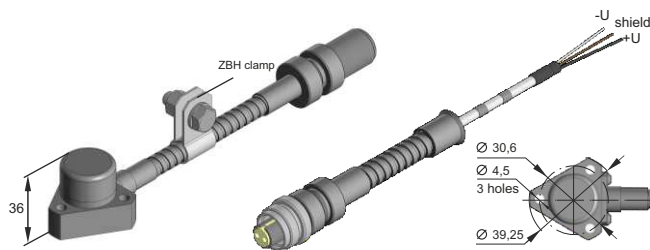
DVA241.104



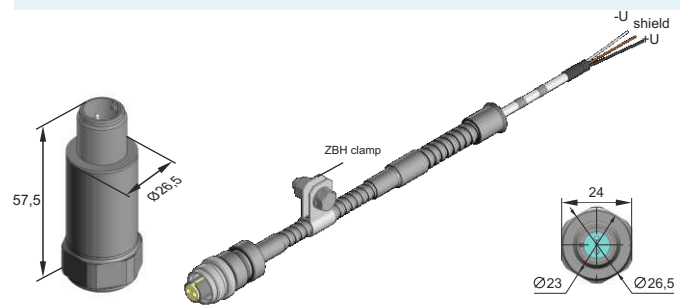
DVA241.132



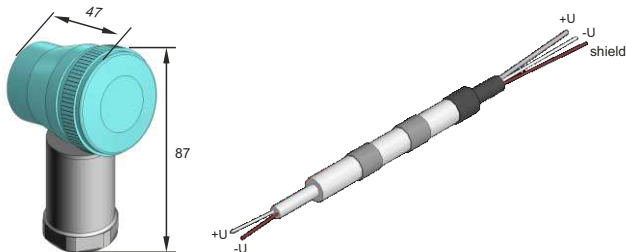
DVA241.164



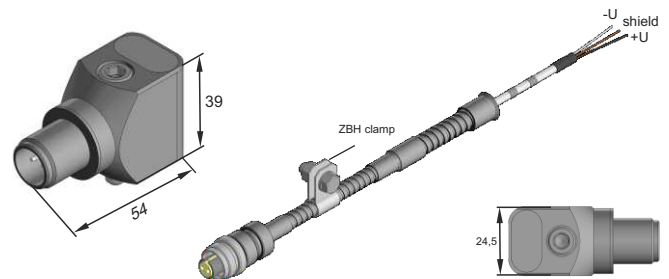
DVA241.214



DVA241.252



DVA241.714



Wiring diagram

