

DVA252.XXX vibration acceleration sensors with voltage output



DVA252.164
version with **TIK-KXX**
connector on the cable

DVA252.104
version with **fixed**
cable connection

DVA252.214
version with **TIK-KXX**
connector on the housing

Product appearance may vary slightly from that shown in the brochure

Features

Designed to measure the instantaneous value of vibration acceleration in diagnostic systems.

Depending on the version, the sensor is installed on the unit using the standard threaded stud M8 or with 3 screws. A threaded stud with a different thread, including inch thread, can be supplied on special order.

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							
80	50	20	12.5	10	6.67	4	2
Measurement ranges for vibration acceleration, m/s ² :							
0-62.5	0-100	0-250	0-400	0-500	0-750	0-1250	0-2500

Operating frequency range, Hz 2-3000;
 10-3000;
 2-5000;
 2-10 000;
 3-10 000;
 5-10 000;
 10-10 000

Climatic version

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

Interface

Output signal type voltage (two-wire)
 Sensor supply voltage, V 17-25
 Connection via the TIK-PLC controller* or the TIK-BIS safety barrier

** The controller operates as EPS, sensor power source, and a safety barrier*

Protection parameters

- Explosion protection
- PO Ex ia I Ma X
 0Ex ia IIC T6...T2 Ga X
 Ex ia IIIC T₂₀₀ 100°C ... T₂₀₀ 280°C Da X
 Ex ib IIIC T95°C ... T275°C Db X
 - 2Ex nA IIC T6...T2 Gc X
 - PO Ex ia I Ma X
 - 0Ex ia IIC T6...T2 Ga X
 - Ex ia IIIC T₂₀₀ 100°C ... T₂₀₀ 280°C Da X
 - Ex ib IIIC T95°C ... T275°C Db X
- Protection class
- IP65/68

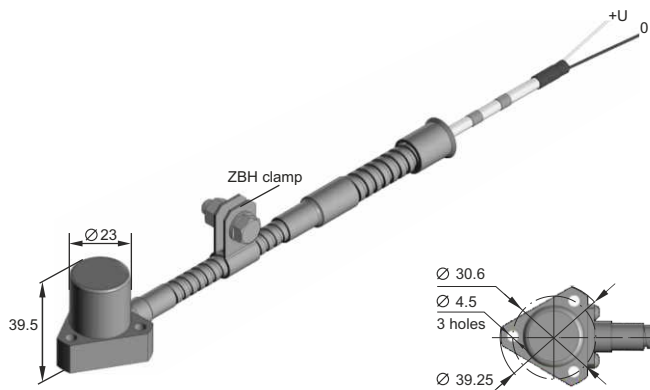
Reliability parameters

MTBF, hours, not less than 100 000
 Warranty service life, months 24
 Service life, years 20
 Verification interval, years 2

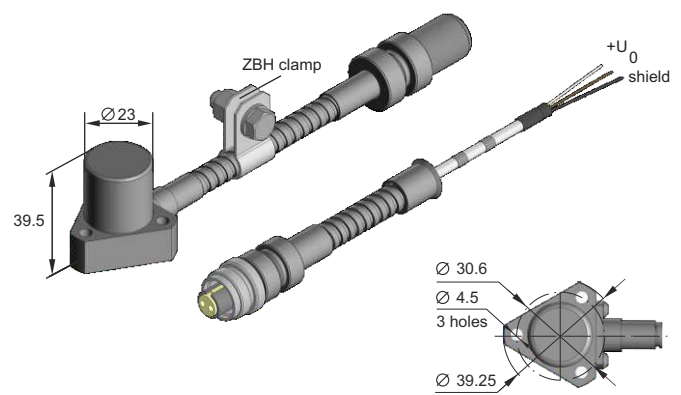


Constructive versions

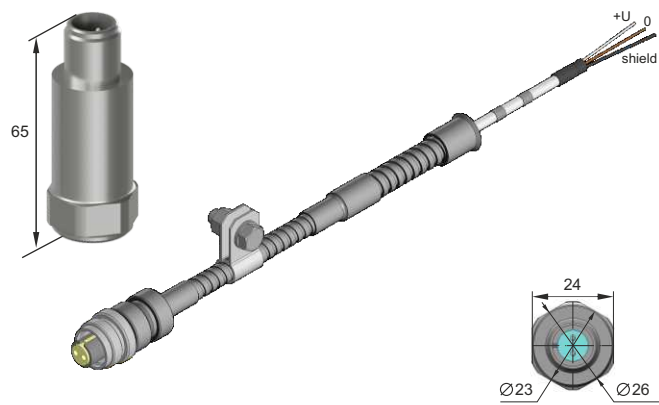
DVA252.104



DVA252.164



DVA252.214



Wiring diagrams

