

DVA484.XXX multifunctional sensors with digital output

DVA484.214
version with the **TIK-KXX** connector on the housing

DVA484.164
version with the **TIK-KXX** connector on the cable

DVA484.104
version with the **non-detachable** cable connection

DVA484.714
version with the **TIK-KXX** connector on the housing



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

Features

Designed to measure vibration acceleration, vibration velocity, vibration displacement along 3 coordinates, as well as angles of inclination and temperature (at the installation place).

All calculations are performed in a real-time mode with the register data refresh interval of 10 ms. The measurement error for vibration parameters is not more than 5% in the basic frequency range. Additional error is not more than 2.5%.

The built-in temperature sensor allows controlling the temperature with an accuracy of ± 2 °C.

Determination of the angles of inclination of each axis with an accuracy of 1°.

Metrological parameters

Conversion coefficient	1	
Ranges of indicated values of vibration velocity amplitude, mm/s:		
0-25	0-40	0-100
Ranges of indicated values of vibration acceleration amplitude, m/s ² :		
0-25	0-40	0-100
Ranges of indicated values of vibration displacement amplitude, μ m:		
0-25	0-40	0-100

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

Interface

Type of output signal RS-485
Supply voltage of the sensor, V 10-24
Protocol Modbus RTU
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

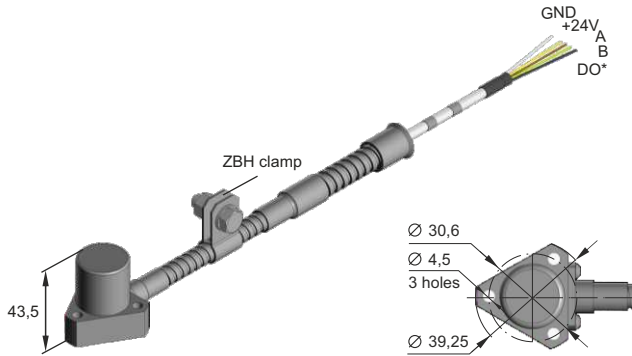
Reliability parameters

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

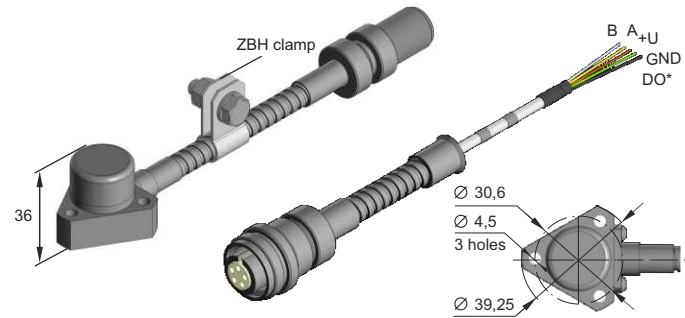


Constructive versions

DVA484.104



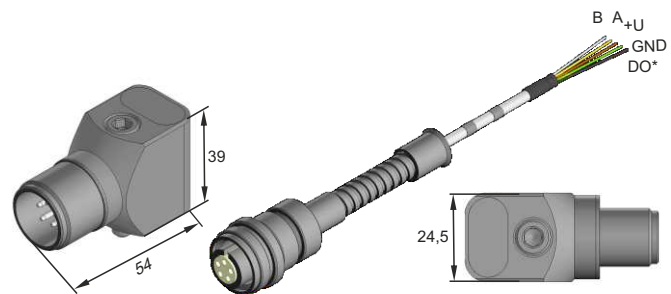
DVA484.164



DVA484.214



DVA484.714



*For version with discrete output

Wiring diagram

