

## DVA484.XXX multifunctional sensors with digital output

### DVA484.164

version with ТИК-KXX connector on the cable

### DVA484.104

version with fixed cable connection



### DVA484.214

version with ТИК-KXX connector on the housing



### DVA484.714

version with ТИК-KXX connector on the housing



Product appearance may vary slightly from that shown 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  $\pm 2^{\circ}\text{C}$ . Determination of the angles of inclination of each axis with an accuracy of  $1^{\circ}$ .

## 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 <sup>2</sup> :		
0-25	0-40	0-100
Ranges of indicated values of vibration displacement amplitude, $\mu\text{m}$ :		
0-25	0-40	0-100

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

## Climatic version

Operating temperature range,  $^{\circ}\text{C}$

- H climatic version ..... -40...+80
- X climatic version ..... -60...+80
- K climatic version ..... -196...+80

## Interface

Output signal type ..... (4-20) mA  
Sensor supply voltage, V ..... 10-24  
Connection via the ТИК-PLC controller\* or the ТИК-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 T<sub>200</sub> 100°C ... T<sub>200</sub> 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 T<sub>200</sub> 100°C ... T<sub>200</sub> 280°C Da X
- Ex ib IIIC T95°C ... T275°C Db X

Protection class

- IP65/68

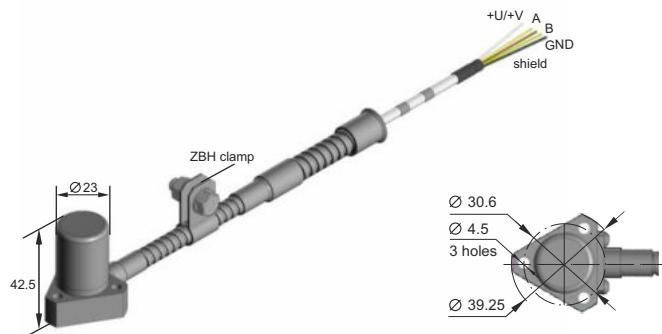
## Reliability parameters

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



## Constructive versions

DVA484.104



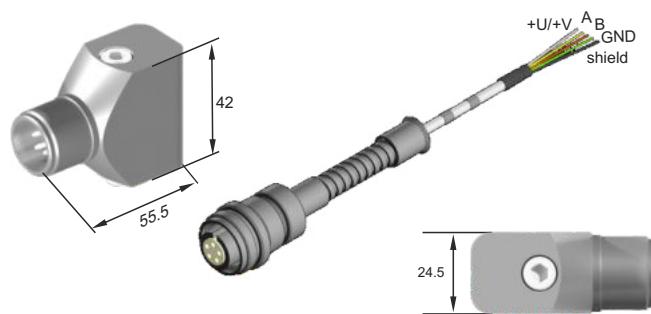
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DVA484.714



## Wiring diagrams

