

## DVA3X4.XXX vibration displacement sensors with digital output

### DVA3X4.214

version with the TIK-KXX connector on the housing



### DVA3X4.164

version with the TIK-KXX connector on the cable



### DVA3X4.104

version with the non-detachable cable connection



### DVA3X4.714

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 displacement (amplitude, RMS value, range, instantaneous value, along 1 or 2 coordinate(s)).

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.

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.

A threaded stud with a different thread, including inch thread, can be supplied on special order.

## 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

## Metrological parameters

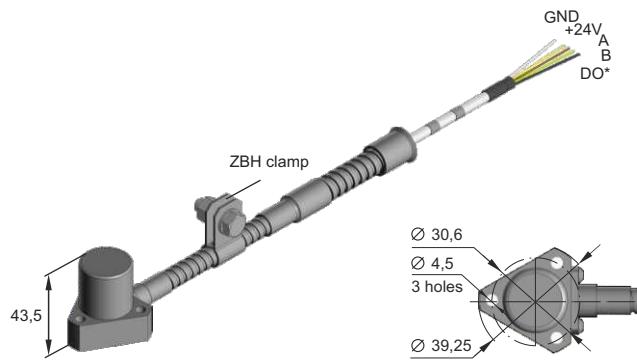
Conversion coefficient		1						
Ranges of indicated values of vibration displacement, μm:								
0-100	0-125	0-160	0-200	0-250	0-300	0-500	0-1000	0-2000

Operating frequency range, Hz ..... 5-500;  
2-1000;  
3-1000;  
5-1000;  
10-1000

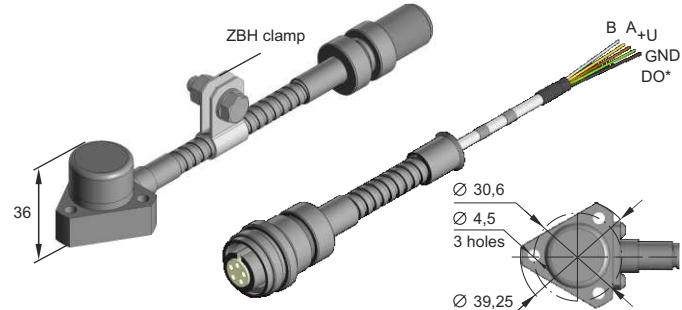


## Constructive versions

DVA3X4.104



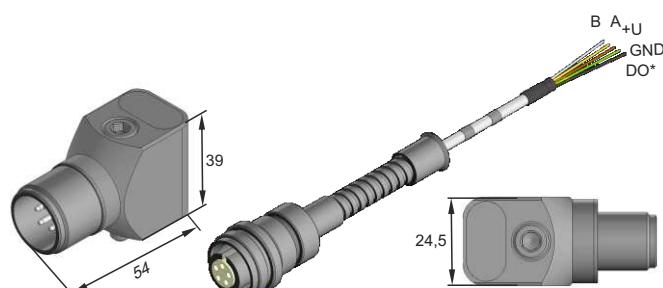
DVA3X4.164



DVA3X4.214



DVA3X4.714



\*For version with discrete output

## Wiring diagram

