

## DVA143.XXX vibration velocity sensors with voltage output



**DVA143.104**  
version with **fixed**  
cable connection

**DVA143.164**  
version with **TIK-KXX**  
connector on the cable

*Product appearance may vary slightly from that shown in the brochure*

### Features

Designed for measuring the RMS value of vibration velocity in emergency protection systems (EPS). They consist of a sealed enclosure containing an integral acceleration sensor and a conversion board  
For installation on the unit, a 3 screw mounting is used.

### Metrological parameters

Conversion coefficient, mV*s/mm	100
Measurement ranges for the RMS vibration velocity, mm/s:	0-125

Operating frequency range, Hz . . . . . 2-1000

### Reliability parameters

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

### Interface

Output signal type . . . . . voltage with separate power supply  
Sensor supply voltage, V . . . . . -2.5; +3.6  
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 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

### Climatic version

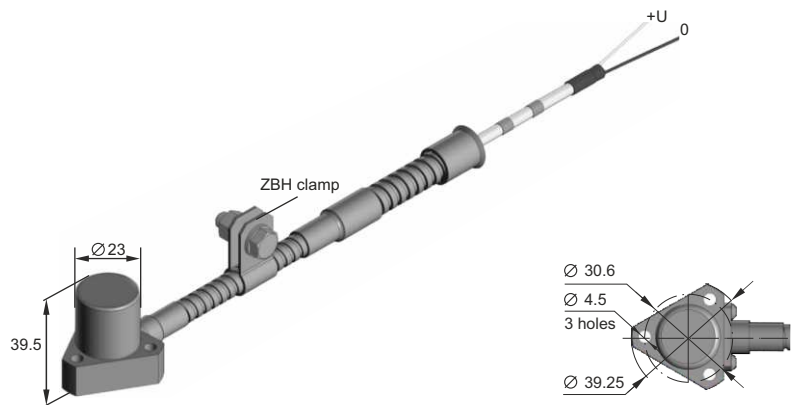
Operating temperature range, °C

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

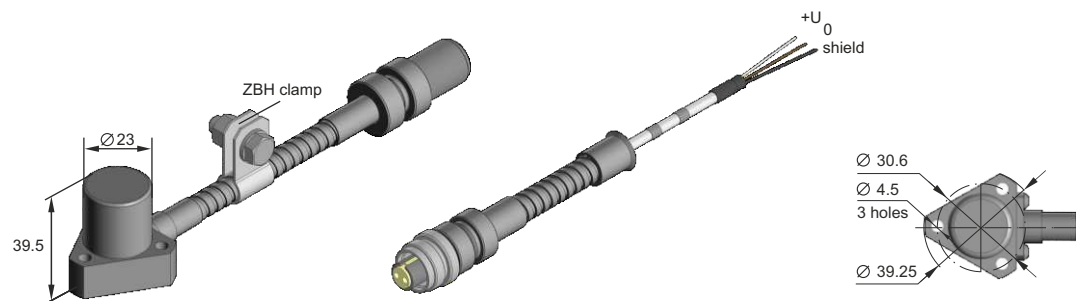


## Constructive versions

### DVA143.104



### DVA143.164



## Wiring diagram

