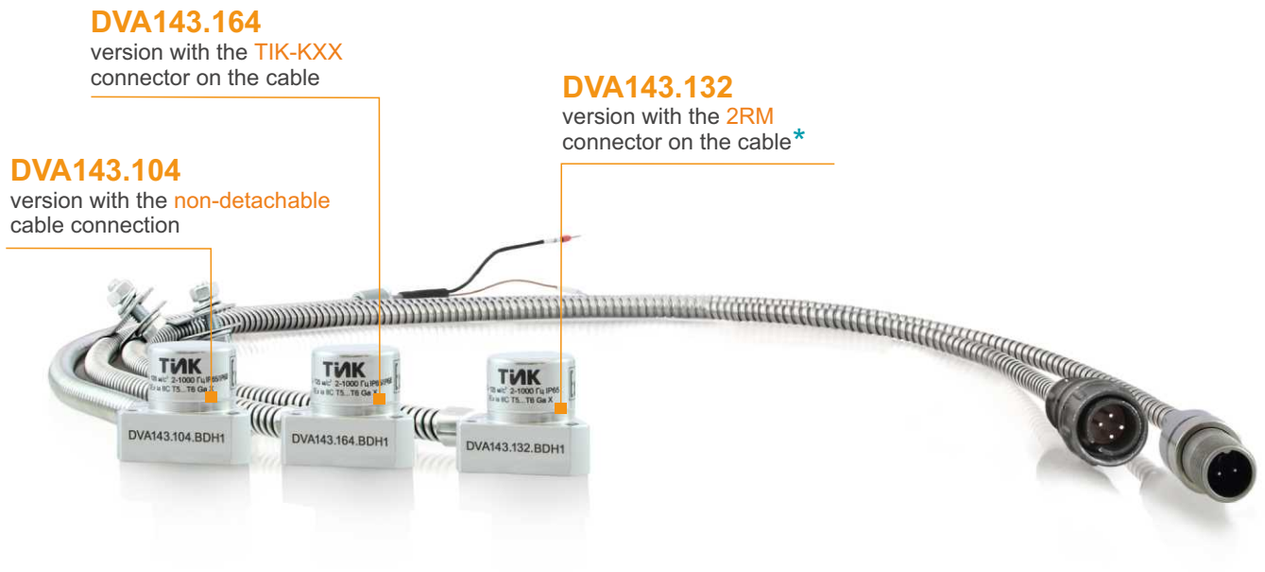
DVA143.XXX vibration velocity sensors with voltage output



* *Only for SPTA*

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

Features

Designed to measure the root-mean-square (RMS) value of vibration velocity in emergency shutdown (ESD) systems.

Consists of a sealed housing that comprises an integral acceleration sensor and a conversion board.

A three (3) screw mounting is used for installation on the unit.

Metrological parameters

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

Operating frequency range, Hz 2-1000

Explosion protection

Marking. . . . . 0Ex ia IIC T6...T2 Ga X / PO Ex ia I Ma X
2Ex nA IIC T6...T2 Gc X

Interface

Type of output signal . . . . . by voltage with separate power supply
Supply voltage of the sensor, V 10-12
Power current, mA 4-10
Maximum measured amplitude value of AC voltage, V. . . . . ≈ 5.0
Connection via the TIK-PLC controller** or the TIK-BIS safety barrier

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

Climatic version

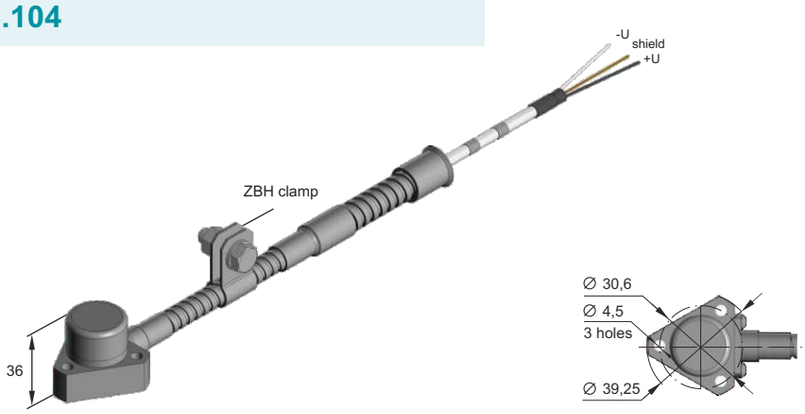
Operating temperature range, °C
- H climatic version . . . . . -40...+80
- X climatic version . . . . . -60...+80
- K climatic version . . . . . -196...+80

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

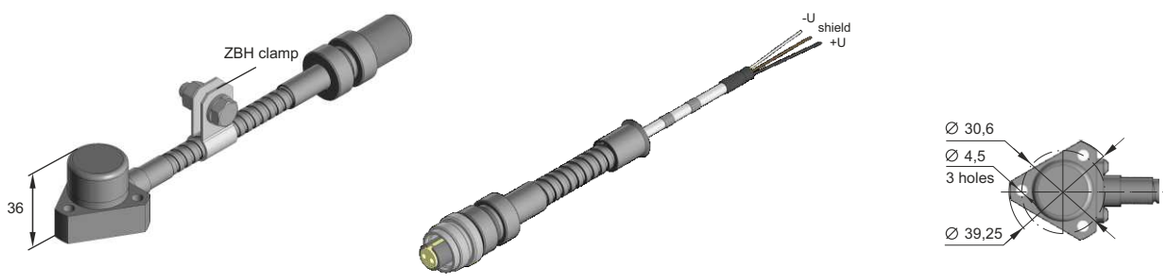
Constructive versions

DVA143.104



DVA143.132

DVA143.164



Wiring diagram