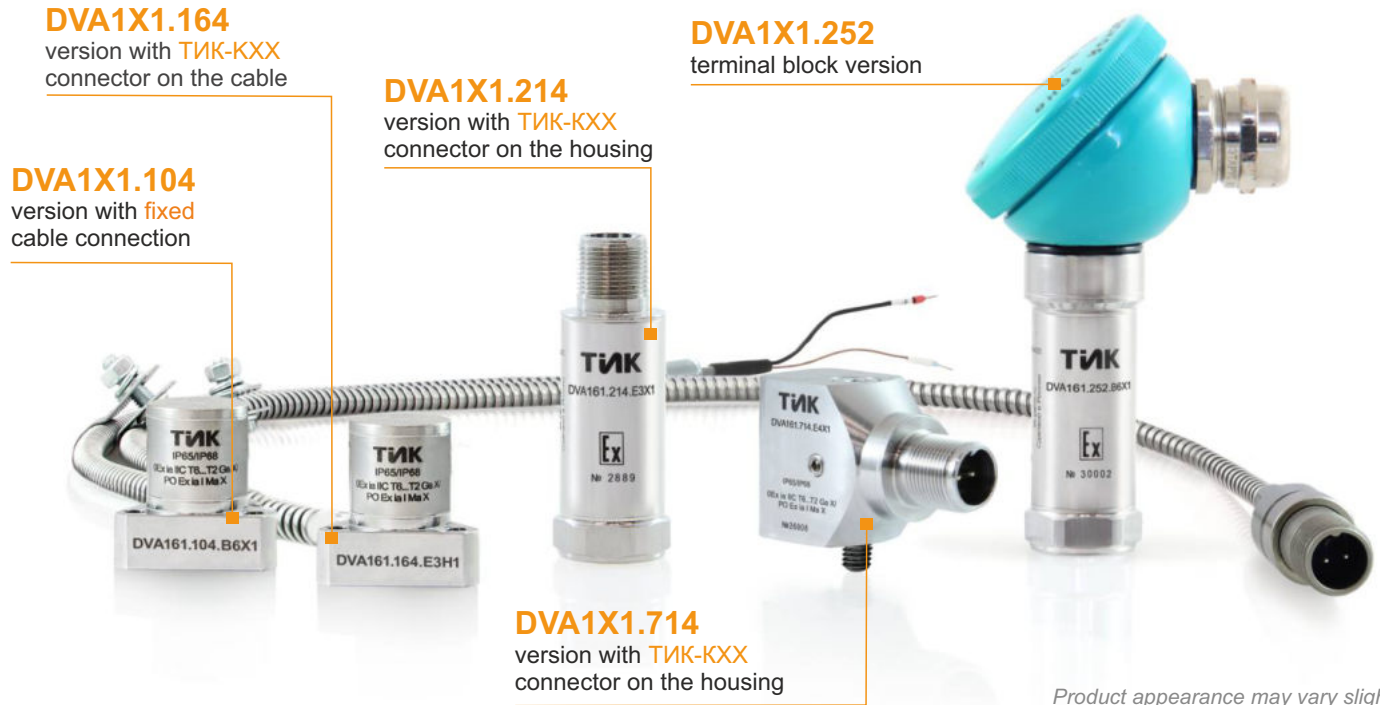


DVA16(7)1.XXX vibration velocity sensors with current output



Product appearance may vary slightly from that shown in the brochure

Features

Designed for measuring the RMS value of vibration velocity in two axes simultaneously.

DVA161.XXX - compares measured values and outputs the highest of them;

DVA171.XXX - performs vector addition of measured values and outputs the sum obtained.

Depending on the version, the standard studs M8.XXX and M8.XXX are used for mounting on the unit. standard M8 stud, 3 screws or 1 screw is used for mounting on the unit. On special order, studs with other threads, including inch threads, are available. The .214 version allows the use of cable assemblies with MIL connector from imported transducers.

Metrological parameters

Conversion coefficient, mA*s/mm											
1.6	1.259	0.8	0.64	0.63	0.533	0.4	0.32	0.315	0.267	0.2	0.16
Measurement ranges for the RMS value of vibration velocity, mm/s:											
0-10	0-12.7	0-20	0-25	0-25.4	0-30	0-40	0-50	0-50.8	0-60	0-80	0-100
Operating frequency range, Hz											2-1000;
											3-1000;
											5-1000;
											10-1000

Climatic version

Operating temperature range, °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 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 T₆₀...T₂ Ga X
 Ex ia IIIC T₂₀₀ 100°C ... T₂₀₀ 280°C Da X
 Ex ib IIIC T₉₅°C ... T₂₇₅°C Db X
- 2Ex nA IIC T₆₀...T₂ Gc X
- PO Ex ia I Ma X
- 0Ex ia IIC T₆₀...T₂ Ga X
- Ex ia IIIC T₂₀₀ 100°C ... T₂₀₀ 280°C Da X
- Ex ib IIIC T₉₅°C ... T₂₇₅°C Db X

Protection class

- IP65/68 (DVA16(7)1.104/164/214/714)
- IP65 (DVA16(7)1.252)

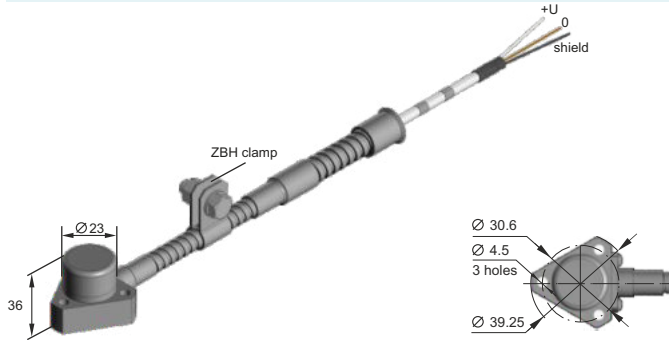
Reliability parameters

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

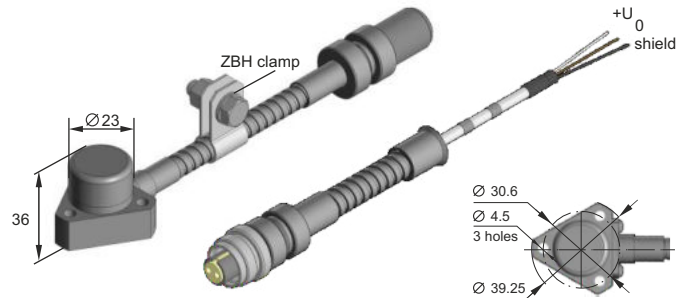


Constructive versions

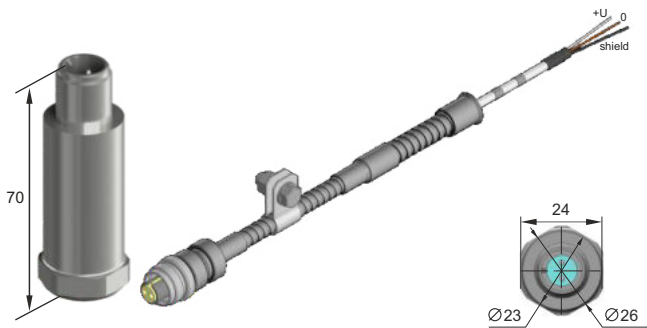
DVA16(7)1.104



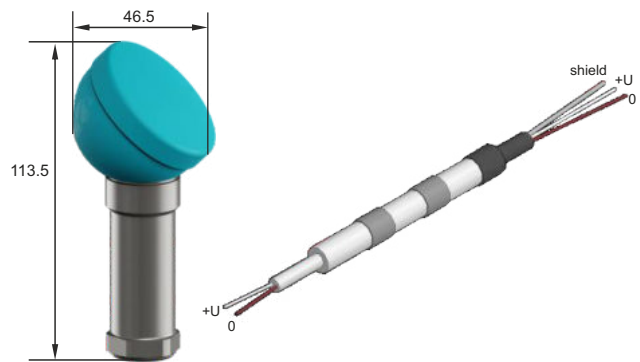
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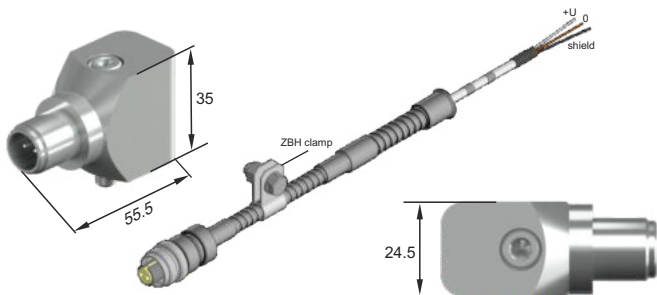
DVA16(7)1.214



DVA16(7)1.252



DVA16(7)1.714



Wiring diagrams

