

DVA211.XXX vibration acceleration sensors with current output



Product appearance may vary slightly from that shown in the brochure

Features

Designed to measure the amplitude of vibration acceleration in emergency protection systems (EPS). They consist of a hermetically sealed enclosure containing an integral acceleration sensor and a conversion board.

Depending on the version, the 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 a MIL connector from imported transducers.

Metrological parameters

Conversion coefficient, mA*s ² /m									
1.6	1.259	0.8	0.64	0.63	0.533	0.4	0.32	0.315	0.267
Measurement ranges for the amplitude value of vibration acceleration, m/s ²									
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

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 T₂₀₀ 100°C ... T₂₀₀ 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 T₂₀₀ 100°C ... T₂₀₀ 280°C Da X
- Ex ib IIIC T95°C ... T275°C Db X

Protection class

- IP65/68 (DVA211.104/164/214/714)
- IP65 (DVA211.252)

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	100 000
Warranty service life, months	24
Service life, years	20
Verification interval, years	2

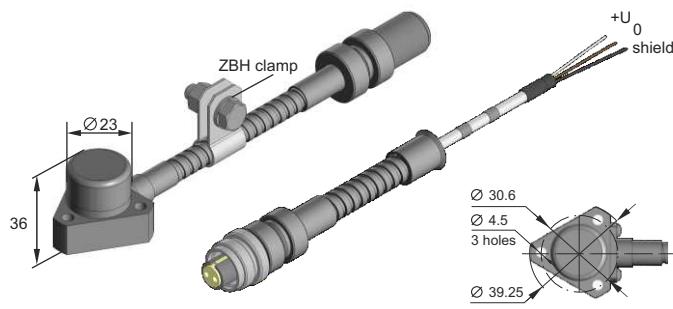


Constructive versions

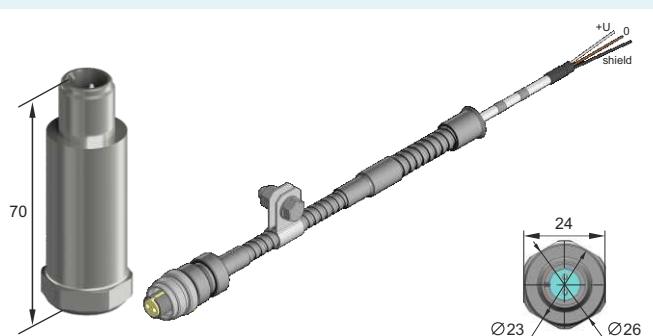
DVA211.104



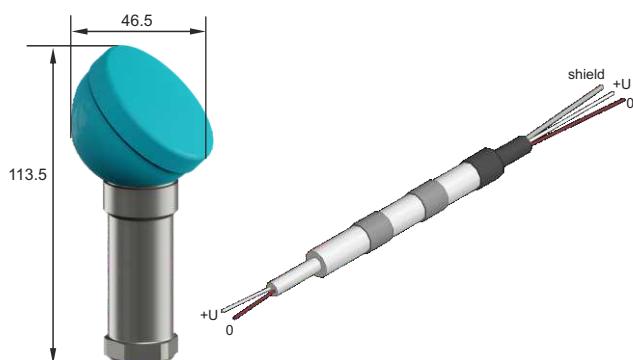
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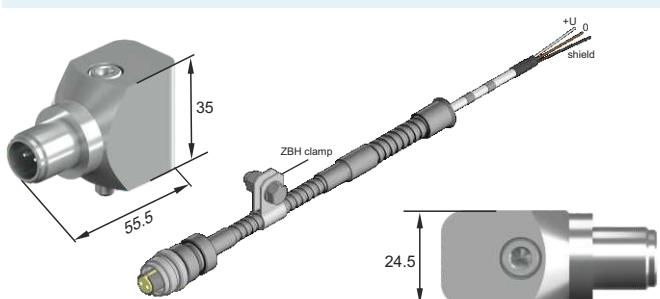
DVA211.214



DVA211.252



DVA211.714



Wiring diagrams

