









IKV-1-2-1 ver. A vibration measuring channel with current output

DV-1 ver. 02 / AV 121

version with the connector on the cable and electronics in the remote unit





The picture shows one of the possible designs

IKV-1-2-1 ver. A consists of the DV-1 ver. 00 (DV-1 ver. 02) sensor and the AV 121 remote unit

Features

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

They consist of a sensitive element and a remote unit.

Connection boxes are optionally supplied for the installation of vibration transducers and remote units.

A connection box can comprise up to 6 remote units.

Sensors of this series are supplied with a vibration-resistant cable of up to 15 metres (limited by production capacity, shall be specified at order).

Metrological parameters

Conversion coefficient, mA*s/mm								
16	5.333	1.6	0.8	0.533	0.32	0.16		
Measurement ranges for the RMS value of vibration velocity, mm/s:								
0-1	0-3	0-10	0-20	0-30	0-50	0-100		

Interface

+1V for every 50 ohms of load)
Connection via the TIK-PLC controller* or the TIK-BIS safety

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

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

Explosion protection

Marking 0Ex ia IIC T5...T6 Ga X / PO Ex ia I Ma X

Climatic version

Operating temperature range, °C

•	DV-1 ver. 00/02	-40+150
•	DV-1 ver. 00/02 (cold)	-60+150
•	AV121 remote unit	60+70

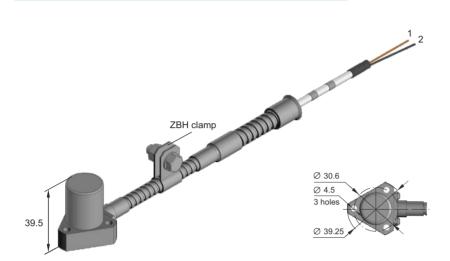
Reliability parameters

MTBF, hours, not less than
Design service life, hours, not less than80 000
Warranty service life, months
Service life, years10
Verification interval, years

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Constructive versions

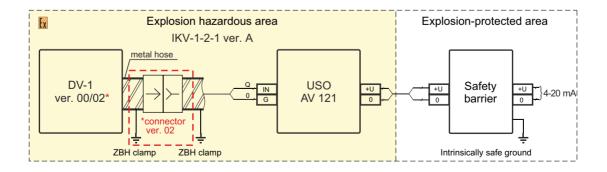
DV-1 ver. 00



DV-1 ver. 02 + connection cable



Wiring diagram



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