



# Safety and Reliability Information

## Vibration Velocity Sensor Series VS-0xx, VS-2xx and VS-01xx

*Safety and reliability related values according to DIN EN ISO 13849-1*

Safety and reliability related values MTTF, PL and Category according to DIN EN ISO 13849-1 have been evaluated for the vibration velocity sensor series VS-0xx, VS-2xx and VS-01xx.

The following table summarizes the results of the evaluation:

Parameter	Value
MTTF	1.333 E+07 h ~ 1520 years
PL	C
Category	1

Note:

- Temperature: between 30 °C and the upper limit of the specified operating temperature range

Abbreviation:

MTTF	Mean Time To Failure
PL	Performance Level From PL "a" (highest failure probability) to PL "e" (lowest failure probability)
Category	Category (CAT) Classification of the safety related parts of a control system in relation to their resistance to faults and their subsequent behaviour in the event of a fault, which is achieved by the structural arrangement of the parts, fault detection and/or by their reliability

Note:

More detailed information about safety and reliability values can be provided on request from Brüel & Kjær Vibro ([info@bkvibro.com](mailto:info@bkvibro.com)).