

FUNCTIONAL SAFETY CERTIFICATE

CERTIFICATO – ZERTIFIKAT – CERTIFICADO – CERTIFICAT

The product:

VC-8000 Backplane

Manufactured by:

Brüel & Kjær Vibro America Inc.
(part of Brüel & Kjær Vibro, a Spectris Company)
1100 Mark Circle,
Gardnerville, NV 89410, United States

Is suitable for the following safety function(s):

Allow the communication between VC-8000 functional safety boards

has been assessed per the relevant requirements of

IEC 61508:2010 Parts 1 to 7

and meets the requirements providing the following:

Systematic Capability:

The compliance with the requirements for the avoidance of systematic faults and the requirements for the control of systematic faults have been achieved following the compliance route 1_S.

SC 2

Hardware Safety Integrity:

The constraints on hardware safety integrity have been verified in order to achieve a sufficiently robust architecture taking into account the level of element and subsystem complexity following the compliance route 1_H.

Type
A

Random Safety Integrity:

The estimated safety integrity, for each safety function, due to random hardware safe and dangerous failures rates (excluding "no part" and "no effect" contribution).

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The architectural constraints and the effects of random failures (PFH/PFD_{AVG}) must be verified for each specific application and safety function implemented by the E/E/PE safety-related system.

Certified by:

BYHON

BYHON Certification Director.



Rosati Francesco

CERTIFICATE No:
BKVA-BKPPFS-PSE-E01

Revision: A

Issued:
[October 21st, 2020]

Valid until:
[October 20th, 2023]

The owner of a valid certificate for an assessed product is authorized to affix the following mark and relative ID number, to all recognized devices which are identical to the product assessed.

BYHON
SIL ✓

ID.N° 117220P02N



#8914
ISO/IEC 17065
Product Certification Body