

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS**

2. **Certificate No:** FM19CA0011X

3. **Equipment:** Field Connex Fieldbus Power System.
(Type Reference and Name)

Listing - 1

**HD2-DM-B Diagnostic Module
HD2-DM-BU Diagnostic Module**

Listing - 2

**FBTA-228-BPFB-a Motherboard
FBTA-228-BPFB-8 Motherboard
FBTA-228-BPFB-R-4R Motherboard
FBTA-228-BPFB-R-8R Motherboard
MB-FB-1R Motherboard
MB-FB-2R Motherboard
MB-FB-4 Motherboard
MB-FB-4.GEN Motherboard MB-FB-4.YO, Motherboard
MB-FB-4R Motherboard
MB-FB-4R.GEN Motherboard
MB-FB-4R.HO.SC Motherboard
MB-FB-4R.YO Motherboard
MB-FB-a Motherboard
MB-FB-GT Motherboard
MB-FB-GTR Motherboard
MBHD-FB-4R Motherboard
MBHD-FB-4R.YO Motherboard
MBHD-FB-a Motherboard
HD2-FBCL-1.500 Power Conditioner Module
HD2-FBPS-1.25.360 Power Supply Module
KLD2-FBPS-1.25.360 Power Supply Module
HD2-GTB-2PA Profibus DP/PA Segment Coupler
HD2-GTR-4PA Profibus DP/PA Segment Coupler**

Listing - 3

**HD2-DM-A Diagnostic Module,
HD2-DM-A.RO Diagnostic Module**

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

SCHEDULE



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HD2-DM-AU Diagnostic Module
HD2-FBPS-1.17.500 Power Supply Module
HD2-FBPS-1.23.500 Power Supply Module
HD2-FBPS-1.500 Power Supply Module
HCD2-FBPS-1.23.500 Power Supply Module
HCD2-FBPS-1.500 Power Supply Module
HCD2-FBPS-1.25* Power Supply Module
MBHD-FB1-4R Motherboard
MBHD-FB1-4R.YO Motherboard
MBHC-FB-4 Motherboard
MBHC-FB-4.1 Motherboard
MBHC-FB-4.HSC Motherboard
MBHC-FB-4.HSC.1 Motherboard
MBHC-FB-4.YO Motherboard
MBHC-FB-4.YO.1 Motherboard
MBHC-FB-4R Motherboard
MBHC-FB-4R.1 Motherboard
MBHC-FB-4R.HSC Motherboard
MBHC-FB-4R.HSC.1 Motherboard
MBHC-FB-4R.YO Motherboard
MBHC-FB-4R.YO.R Motherboard
MBHC-FB-4R.YO.1 Motherboard
MBHC-FB-8R Motherboard
MBHC-FB-8R.1 Motherboard
MBHC-FB-8R.HSC Motherboard
MBHC-FB-8R.HSC.1 Motherboard
MBHC-FB-8R.HSC.R Motherboard
MBHC-FB-8R.HSC.R.1 Motherboard
MBHC-FB-8R.RH Motherboard
MBHC-FB-8R.RH.1 Motherboard
MBHC-FB-8R.RH.R Motherboard
MBHC-FB-8R.RH.R.1 Motherboard
MBHC-FB-8R.YO Motherboard
MBHC-FB-8R.YO.1 Motherboard
MBHC-FB-8R.YO.R Motherboard

4. **Name of Listing Company:** Pepperl+Fuchs GmbH
5. **Address of Listing Company:** Lilienthalstrasse 200
Mannheim
D-68307
Germany
6. The examination and test results are recorded in confidential report number:

3024816 dated 3rd March 2006

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7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

C22.2 No. 213:1987 Reaffirmed:1999, C22.2 No. 142:1987 Reaffirmed:2000, E60079-15:2002

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. Equipment Ratings:

Listing - 1

Nonincendive for Class I, Division 2, Groups A, B, C and D, Tambient = -40°C to +70°C; sparking for Class I, Zone 2, Group IIC, Tambient = -40°C to +70°C hazardous indoor locations.

Listing - 2

Nonincendive for Class I, Division 2, Groups A, B, C and D, Tambient = -40°C to +60°C; sparking for Class I, Zone 2, Group IIC, Tambient = -40°C to +60°C hazardous indoor locations.

Listing - 3

Nonincendive for Class I, Division 2, Groups A, B, C and D, Tambient = -40°C to +70°C; sparking for Class I, Zone 2, Group IIC, Tambient = -40°C to +70°C hazardous indoor locations.

11. The marking of the equipment shall include:

Listing - 1

Class I, Division 2, Groups A, B, C and D T4 Ta = -40°C to +70°C
Ex nA nC IIC T4 Ta = -40°C to +70°C

Listing - 2

Class I, Division 2, Groups A, B, C and D T4 Ta = 60°C
Ex ec IIC T4 Ta = 60°C

Listing - 3

Class I, Division 2, Groups A, B, C and D T4 Ta = 70°C
Ex ec IIC T4 Ta = 70°C

Certificate issued by:



E. Marquedant
VP, Manager - Electrical Systems

9 September 2019

Date

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12. Description of Equipment:

General - The FieldConnex Power Hub system is a unified systems platform for the power supply of fieldbus networks according to IEC 61158-2. It allows connection of multiple fieldbus segments to Foundation Fieldbus HI host systems.

Construction - The Modules are housed within molded plastic shells. The Motherboards are housed within molded plastic half-shells with exposed faces. The equipment requires installation within a cabinet or final enclosure capable of accepting Class I, Division 2 or Class I, Zone 2 wiring methods, as applicable..

Ratings - The equipment is designed to operate over an ambient temperature range of -40°C to +60°C. The equipment operates from a DC supply voltage with a lower limit of 19V to an upper limit of 30V to 35V (depending upon module)

Field Connex Fieldbus Power System.

HD2-DM-B Diagnostic Module

HD2-DM-BU Diagnostic Module

Field Connex Fieldbus Power System.

FBTA-228-BPFB-a Motherboard

a = Connection type - Any combination of alphanumeric characters.

FBTA-228-BPFB-8 Motherboard

FBTA-228-BPFB-R-4R Motherboard

FBTA-228-BPFB-R-8R Motherboard

MB-FB-1R Motherboard

MB-FB-2R Motherboard

MB-FB-4 Motherboard

MB-FB-4.GEN Motherboard

MB-FB-4.YO Motherboard

MB-FB-4R Motherboard

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MB-FB-4R.HO.SC Motherboard

MB-FB-4R.YO Motherboard

MB-FB-a Motherboard

MB-FB-GT Motherboard

MB-FB-GTR Motherboard

MBHD-FB-4R Motherboard

MBHD-FB-4R.YO Motherboard

MBHD-FB-a Motherboard

a = Connection type - Any combination of alphanumeric characters.

HD2-FBCL-1.500 Power Supply Module

HD2-FBPS-1.25.360 Power Supply Module

KLD2-FBPS-1.25.360 Power Conditioner Module

HD2-GTB-2PA Profibus DP/PA Segment Coupler

HD2-GTR-4PA Profibus DP/PA Segment Coupler

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Field Connex Fieldbus Power System.

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HD2-DM-A.RO Diagnostic Module
HD2-DM-AU Diagnostic Module
HD2-FBPS-1.17.500 Power Supply Module
HD2-FBPS-1.23.500 Power Supply Module
HD2-FBPS-1.500 Power Supply Module
HCD2-FBPS-1.23.500 Power Supply Module
HCD2-FBPS-1.500 Power Supply Module
HCD2-FBPS-1.25* Power Supply Module

*can be replaced by any combination of alphanumeric characters

MBHD-FB1-4R Motherboard
MBHD-FB1-4R.YO Motherboard
MBHC-FB-4 Motherboard
MBHC-FB-4.1 Motherboard
MBHC-FB-4.HSC Motherboard
MBHC-FB-4.HSC.1 Motherboard MBHC-FB-4.YO Motherboard
MBHC-FB-4.YO.1 Motherboard
MBHC-FB-4R Motherboard
MBHC-FB-4R.1 Motherboard
MBHC-FB-4R.HSC Motherboard
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MBHC-FB-8R Motherboard
MBHC-FB-8R.1 Motherboard
MBHC-FB-8R.HSC Motherboard
MBHC-FB-8R.HSC.1 Motherboard
MBHC-FB-8R.HSC.R Motherboard
MBHC-FB-8R.HSC.R.1 Motherboard
MBHC-FB-8R.RH Motherboard
MBHC-FB-8R.RH.1 Motherboard
MBHC-FB-8R.RH.R Motherboard
MBHC-FB-8R.RH.R.1 Motherboard
MBHC-FB-8R.YO Motherboard
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13. Specific Conditions of Use:

- 1 In Class I, Division 2 installations, the subject equipment shall be mounted within a tool-secured enclosure which is capable of accepting one or more of the Class I, Division 2 wiring methods specified in the Canadian Electrical Code (CSA C22.1).
- 2 In Zone 2 installations, the subject equipment shall be mounted within a tool-secured enclosure which is capable of accepting one or more of the Zone 2 wiring methods specified in the Canadian Electrical Code (CSA C22.1). Where installed in outdoor or potentially wet locations, the enclosure shall, at a minimum, meet the requirements of IP54. Where installed in dry indoor locations, the enclosure shall, at a minimum, meet the requirements of IP4X.
- 3 It is the responsibility of the manufacturer to provide warning markings in French where required by local jurisdictions.

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals Canadian Certification Scheme.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
3 rd March 2006	Original Issue.
22 nd March 2019	<u>Supplement 16:</u> Report Reference: – RR217288 dated 22 nd March 2019. Description of the Change: Model extension and conversion of the certificate into the new format.
9 th September 2019	<u>Supplement 17:</u> Report Reference: – RR219583 dated 9 th September 2019. Description of the Change: Add MBHC-FB-8R-YO.R model

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