

# CERTIFICATE OF CONFORMITY



- HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
- Certificate No:** FM22US0031X
- Equipment:** Model KFD2-EB2 Power Feed Modules  
**(Type Reference and Name)**
- Name of Listing Company:** Pepperl+Fuchs SE
- Address of Listing Company:** Lilienthalstrasse 200  
68307 Mannheim  
Germany
- The examination and test results are recorded in confidential report number:  
  
3000847 dated 17<sup>th</sup> July 1998
- FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:  
  
FM Class 3600:2022, FM Class 3611:2021, ANSI/UL-121201:2017  
FM Class 3810:1989 + Supplement # 1:1995
- 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.
- 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.
- Equipment Ratings:  
  
Nonincendive for use in Class I, Division 2, Group A, B, C, and D; Temperature Class T4; Tamb = -40°C to +70°C; when installed per control drawing 116-0160; Hazardous (Classified) Locations.  
  
Class I, Zone 2, Group IIC; Temperature Class T4; Tamb = -40°C to +70°C; when installed per control drawing 116-0160; Hazardous (Classified) Locations.

## Certificate issued by:

J.E. Marquedant  
VP, Manager - Electrical Systems

11 April 2022

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://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](mailto:information@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)



# SCHEDULE



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11. The marking of the equipment shall include:

Suitable for use in Class I, Div 2, Groups A, B, C, D or Class I, Zone 2, Groups IIC, IIB, IIA Hazardous Location when installed per P+F Control Drawing 116-0160.  
A temperature rating of T4 ( $T_a = 70^{\circ}\text{C}$ ) applies.

Ambient temperature:  $-40^{\circ}\text{C} < T_a < +70^{\circ}\text{C}$

Supply: DC 20-30Vdc,  $\leq 1\text{W}$  or  $\leq 2.4\text{W}$  (Depending on the version)

12. **Description of Equipment:**

**General** – The power feed modules are designed to connect power on to the P+F Power Rail. Some models are designed to pass signals as well as power. All of the Power Feed modules are fused and have a relay output which can be used to indicate the loss of power to the module.

**Construction** – The module are approximately 119mm (4.7") in length by 20mm (0.8") width by 115mm (4.5") in depth. The electronics are enclosed in a plastic module housing with a DIN mount. The power modules are intended to be installed in a final enclosure.

**Ratings** - The Model KFD2-EB2 Power Feed Modules operate at 20-30Vdc,  $\leq 1\text{W}$  or  $\leq 2.4\text{W}$  depending on the version. The Power Feed Modules are rated for use in an ambient temperature range of  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ .

**KFD2-EB2bcd. Power Feed Modules.**

b = .R4A or blank.

c = .B or .RPI or blank.

d = .SP or blank.

13. **Specific Conditions of Use:**

1. The power feed modules shall be installed within an enclosure meeting the requirements of ANSI/ISA-82.02.01 or other applicable ordinary location standards.

14. **Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

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:

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Date	Description
11 <sup>th</sup> April 2022	<b>Supplement 4:</b> Report Reference: – Revision Report RR232262 dated 11 <sup>th</sup> April 2022. Description of the Change: Updated FM3600 and FM3611. Update ambient temperature range marking from +60°C to -40°C to +70°C. Update drawings as a result.

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