



EU – TYPE EXAMINATION CERTIFICATE

[1]

[2] Component Intended for use on/in an Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 23 ATEX 0077U**

Issue: **1**

[4] Product: **FB Remote I/O module**

Type: **FB6306B3**

[5] Manufacturer: **Pepperl+Fuchs SE**

[6] Address: **Lilienthalstrasse 200, 68307 Mannheim, Germany**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 23 CR 099**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-1:2014

EN 60079-5:2015

EN IEC 60079-7:2015 / A1:2018

except in respect of those requirements listed at item 18 of the Schedule.

[10] The sign 'U' is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

[12] The marking of the product shall include the following:



II 2G Ex db eb q IIC Gb

Our ref.: 23.CRT.272

Date: 01.02.2024.



FIDITAS Ltd.

Certification department

Approved:

Marino Kelava, M.E.Eng.



[13]

SCHEDULE

[14]

EU - TYPE EXAMINATION CERTIFICATE No.:

FIDI 23 ATEX 0077U

[15]

Description of product

The component FB IO, type FB6306B3, acts as interface for signals between field devices and process control systems.

The component FB IO is intended to be mounted in areas requiring equipment category 2G on approved backplanes FB BP. The FB BP provides supply and control signals in type of protection "eb" and "db" (via separately certified components: "MC-jack"). The input signals are connected at the front via a connector suitable for protection "eb". FB6306B3 uses a "double-wide" "q" container.

The component FB IO, listed in this certificate, meets the relevant parameters of FB concept.

Technical data:

Ambient temperature:	-40°C to +60°C
Rated voltage:	12 V DC (-2%; +4%) (11.76 ... 12.48 VDC)
Relay:	
Switching voltage	30 V DC
Switching current	1 A DC resistive load
Switch power	30 W

[16]

Confidential Report No.

FIDI 23 CR 099

[16.1]

Routine testing

The manufacturer shall carry out the following routine tests:

- The dielectric strength test for the filling material is to be executed prior to each batch before filling process according to clause 5.2.2 of standard EN 60079-5.
- The manufacturer shall carry out dielectric strength test according to clause 7.1 of standard EN IEC 60079-7.

[17]

Schedule of Limitations

- The component FB IO shall be provided with protection that ensures a pollution degree 2 (or better).
- The component FB IO shall only be used together with approved backplanes FB BP, power supply FB PS and gateways (FB GW) and bus-termination FB BT (if applicable).
- Supply the component FB IO with a source that meets the requirements for Safety Extra Low Voltage (SELV) or Protective Extra Low Voltage (PELV) with a maximum voltage of 30 V.
- The field circuits shall only be connected to a source that meets the requirements for Safety Extra Low Voltage (SELV) or Protective Extra Low Voltage (PELV) with a maximum voltage of 30 V.
- All circuits connected to the device shall comply with the overvoltage category II (or better) according to EN IEC 60664-1.
- Permitted supply short-circuit current is 50 A for power supply and 1 A for the field circuits.



- The component FB IO shall be installed and operated only in surrounding enclosures that comply with the safety requirements for equipment category 2G enclosures according to EN IEC 60079-0 and are rated with the degree of protection IP54 according to EN 60529.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Description and Calculations	16-1625FI-00	-	12.12.2023.
Schematics LB6006A2, LB6002A2	16-1625FI-01	-	12.12.2023.
Safety relevant components	16-1625FI-02	-	12.12.2023.
Schedule Drawing - Assembly Drawing	16-1625FI -03	-	12.12.2023.
Mechanical Drawing	16-1625FI -04	-	26.01.2024.
Schedule Drawing - Layout	16-1625FI -05	-	12.12.2023.
Filling process	16-1625FI -07	-	12.12.2023.
Instructions	16-1625FI -09	-	12.12.2023.
Type label	16-1625FI -10	-	12.12.2023.