



[1] **TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres  
Directive 2014/34/EU.

[3] Type Examination Certificate Number: **FIDI 23 ATEX 0078X** Issue: **1**

[4] Product: **LB Remote I/O modules**

Type: **LB6006A2 and LB6001A2**

[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., Certification Body, 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 100**

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

**EN IEC 60079-0:2018**

**EN IEC 60079-7:2015 / A1:2018**

**EN IEC 60079-15:2019**

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

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This 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 3G Ex ec nC IIC T4 Gc**

Our ref.: 23.CRT.273

Date: 31.01.2024.



**Fiditas** d.o.o.  
ZAGREB

**FIDITAS Ltd.**

**Certification department**

Approved:

Marino Kelava, M.E.Eng.





[13]

**SCHEDULE**

[14]

**TYPE EXAMINATION CERTIFICATE No.:**

**FIDI 23 ATEX 0078X**

[15]

**Description of product**

The equipment LB IO – LB Relay Modules LB6006A2 (8-channels) and LB6001A2 (2-channels), act as interface between the hazardous area and the non-hazardous area within the LB Remote I/O System. The equipment LB IO is intended to be mounted in areas requiring category 3G on approved backplanes LB BP.

The LB BP provides supply and control signals in type of protection “ec”. The output signals are connected at the front via a connector suitable for protection “ec”.

**Technical data:**

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

[16]

**Confidential Report No.**

**FIDI 23 CR 100**

[16.1]

**Routine testing**

The manufacturer shall carry out routine test of dielectric strength according to clause 7.1 of the standard EN IEC 60079-7.

[17]

**Specific Conditions of Use**

- The equipment LB IO shall be installed in an environment that ensures a pollution degree 2 (or better).
- The equipment LB IO shall only be used together with approved backplanes LB BP.
- Supply the component LB IO 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.
- Provide a transient protection. Ensure that the peak value of the transient protection does not exceed 140 % of the rated voltage.
- All circuits connected to the device shall comply with overvoltage category II (or better) according to EN IEC 60664-1.
- The equipment LB IO shall be installed and operated only in surrounding enclosures that comply with the safety requirements for minimum EPL Gc 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.
Schedule Drawing - Layout	16-1625FI -05	-	12.12.2023.
Instructions	16-1625FI -09	-	12.12.2023.
Type label	16-1625FI -10	-	12.12.2023.