



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 13ATEX2388X** Issue: **0**

4 Equipment: **Termination board, model HiDTB04 - ***

5 Applicant: **Pepperl + Fuchs GmbH** **Pepperl+Fuchs (Manufacturing) PTE LTD**

6 Address: **Lilienthalstrasse 200** **P+F Building**
68307 Mannheim **18 Ayer Rajah Crescent**
Germany **139942 Singapore**

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

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012

EN 60079-11:2012

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

Not applicable, see special conditions of safe use clause 15.1

Project Number 32635

C Ellaby
Deputy Certification Manager

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 13ATEX2388X
Issue 0

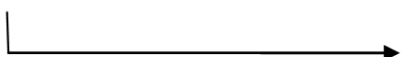
13 DESCRIPTION OF EQUIPMENT

The termination board, model HiDTB04 - * is intended to be located in a non hazardous (safe) area. It is a passive device meant to interface with up to four, separately certified, pieces of I.S. associated apparatus (barrier modules) with certified equipment placed in a hazardous area.

The HiDTB04 - * termination board consists of a printed circuit board assembly within a plastic chassis that provides an ingress protection level of IP 20 where necessary. The non-I.S. parts of the HiDTB04 - * are not controlled within this certification as the input is always assumed to be 250 V (mains voltage) and therefore, this section of the PCB is allowed to be modified as required by the manufacturer. The I.S. portion of the device is controlled since it contains the various critical terminal blocks, plug-in connections and traces that have been assessed within this certification.

The asterix (*) in the model code for the HiDTB04 - * represents design specifications with respect to the non-I.S. side of the device. Only the third character in the asterix (*) is controlled and shall be limited to 'SC', 'CC' or 'SP'.

HiDTB04 - *



The * includes following positions (each separated with a dash):

Position 1: Type of control system. Non influential on the type of protection.

Position 2: Type and number of connectors on the safe side of the board. Non influential on the type of protection.

Position 3: Type of terminals on the hazardous side of the board. Intrinsic safety relevant.

- **SC** (screw terminal)
- **CC** or **SP** (cage clamp terminal)

Position 4: Fault monitoring on the safe side of the board. Non influential on the type of protection.

Position 5: Signal type, signal direction and number of channels on the safe side of the board. Non influential on the type of protection

Further positions could follow. Non influential on type of protection.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	17 December 2013	R32635A/00	The release of the prime certificate.

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Issue 0

- 15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)
- 15.1 The HiDTB04 - * termination board is a piece of passive equipment and as such bears no marking that appertains to its use in conjunction with equipment in the hazardous area, however, it is intended to be fitted with a maximum of four pieces of associated apparatus and it is the marking of these products that determines the ultimate application of the HiDTB04 - * Termination Board.
- 15.2 The pieces of associated apparatus that are used in this equipment shall be manufactured by Pepperl+Fuchs GmbH, suitable for the application and certified by a notified body. The user/installer shall also ensure that they are fitted in accordance with EN 60079-11 as advised by the manufacturer, additionally, they shall have a maximum Um of 250 Vrms and a maximum Uo of 30 Vdc.
- 16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)**
- The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.
- 17 **CONDITIONS OF CERTIFICATION**
- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.
- 17.3 The manufacturer shall take all reasonable steps and provide the necessary advice that will ensure that the pieces of associated apparatus that are fitted to the HiDTB04 - * are installed in accordance with EN 60079-11.

Certificate Annexe

Certificate Number: Sira 13ATEX2388X
Equipment: Termination board, model HiDTB04 - *
Applicant: Pepperl + Fuchs GmbH



Issue 0

Drawing no.	Sheets	Manufacturer's Date	Date (Sira stamp)	Title
16-0987 IE	1 of 1	09-Dec-13	11-Dec-13	Summary of Drawings
16-0987CS-00	1 to 8	09-Dec-13	11-Dec-13	Description, Calculations
16-0987CS-01	1 to 2	15-Mar-13	11-Dec-13	Schematics
16-0987CS-02	1 of 1	03-May-13	11-Dec-13	Critical components
16-0987CS-03	1 of 1	15-Mar-13	11-Dec-13	Component layout
16-0987CS-04	1 to 3	15-Mar-13	11-Dec-13	General assembly / Mechanical layout
16-0987CS-05	1 to 4	15-Mar-13	11-Dec-13	PCB trace layout
16-0987CS-09	1 to 2	09-Dec-13	11-Dec-13	Instructions
16-0987IE-10	1 of 1	09-Dec-13	11-Dec-13	Label drawing

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