



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 12ATEX2128X** Issue: **1**

4 Equipment: **Surge Protector Fisco Field Device**

5 Applicant: **Pepperl+Fuchs GmbH**

6 Address: Lilienthalstrasse 200
68307 Mannheim
Germany

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

8 CSA Group Netherlands B.V., Notified Body Number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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

EN 60079-26:2007

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

11 This EU-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:



II 1 G

Ex ia IIC T4 (Ta = -40°C to +70°C)

Project Number 2264

Signed: 

Title: Director of Operations

This certificate and its schedules may only be reproduced in its entirety and without change

CSA Group Netherlands B.V.
Utrechtseweg 310,
6812 AR, Arnhem,
Netherlands



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 12ATEX2128X
Issue 1

13 DESCRIPTION OF EQUIPMENT

The TPH-LBF*, TCP-LBF* and SCP-LBF* Surge Protector Modules are used to protect Fieldbus equipment from damage caused by voltage surges and secondary lightning strikes in accordance with the requirements of EN 60079-25, Clause 12, "Protection against Lightning and other Electrical Surges".

The pluggable units are intended to fit directly into Fieldbus Power Hubs, Segment Protectors and Field Barriers, providing trunk and spur connections when installed in a Zone 1 or Zone 2 hazardous area. The modules contain surge protection components and connections for Fieldbus components (protected side) and bus cables (unprotected side). The different module types are configured to allow the cable screen/shield to either connect directly to earth or indirectly through a gas discharge tube (GDT). An optional Diagnosis PCB is used for monitoring, measuring and recording over-voltage events and to predict the failure of a module. The TCP-*** type module has additional terminals to enable a bus terminator to be connected.

Rating

The Surge Protectors have the following electrical ratings:

TPH-LBF-IA1.36.DE.* and TCP-LBF-IA1.36.IE.*	
Ambient temperature	-40°C to +70 °C
Rated voltage	9 to 32 V
Rated current	0 to 600 mA
Series resistance	2 x 1 Ω
SCP-LBF-IA1.36.DE.*	
Ambient temperature	-40°C to +70 °C
Rated voltage	9 to 32 V
Rated current	0 to 250 mA

The equipment has the following safety description:

Models	Zone	ATEX Certification Code	ATEX Marking	Entity Parameters	
TCP-LBF-IA1.36.IE.0 TCP-LBF-IA1.36.IE.1 TPH-LBF-IA1.36.DE.0 TPH-LBF-IA1.36.DE.1 SCP-LBF-IA1.36.IE.0 SCP-LBF-IA1.36.IE.1	0	Ex ia IIC T4	II 1 G	Ui	≤ 24 V
				Ii	≤ 500 mA
				Ci	≤ 2nF
				Li	≤ 100nH

Optional electrical earth bonding bars, type ACC-LBF-EB*** are available for the earth bonding of the TPH-*** and SCP-*** Surge Protection Modules.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 12ATEX2128X
Issue 1

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	18 October 2012	R26597A/00	The release of the prime certificate.
1	15th October 2019	2264	<ul style="list-style-type: none">• Transfer of certificate Sira 12ATEX2128X from Sira Certification Service to CSA Group Netherlands B.V..• EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i>

15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)

15.1 The function, performance and protection provided by these devices with respect to the effects of abnormal transient energy from lightning or other electrical surges is considered outside of the scope of the standards listed on this certificate.

The following conditions shall be considered:

- Pay attention to avoid electrostatic discharges while operating the installed device. Avoid electrostatic charge.
- The Surge Protection Devices do not meet the requirement of EN 60079-11, clause 6.3.13, Dielectric Strength Requirements, between the intrinsically safe circuit and the parts that may be earthed, due to presence of Gas Discharge Tubes.

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.

Certificate Annexe



Certificate Number: Sira 12ATEX2128X
Equipment: Surge Protector Fisco Field Device
Applicant: Pepperl+Fuchs GmbH

Issue 0

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
16-0878SR-01	1 to 10	-	28 Sep 12	Schematics - Surge Protection Modules for Fieldbus Products
16-0878SR-02	1 to 4	-	28 Sep 12	Relevant Components - Surge Protection Modules for Fieldbus Products
16-0878SR-03	1 to 10	-	28 Sep 12	Component Set-Ups - Surge Protection Modules for Fieldbus Products
16-0878SR-04	1 to 5	-	28 Sep 12	Mechanical Parts - Surge Protection Modules for Fieldbus Products
16-0878SR-05	1 to 9	-	28 Sep 12	Layout - Surge Protection Modules for Fieldbus Products
16-0878SR-07	1 to 7	-	28 Sep 12	Assembling - Surge Protection Modules for Fieldbus Products
16-0878SR-10	1 to 9	-	28 Sep 12	Labels - Surge Protection Modules for Fieldbus Products

This certificate and its schedules may only be reproduced in its entirety and without change

CSA Group Netherlands B.V.
Utrechseweg 310,
6812 AR, Arnhem,
Netherlands