



## EU-TYPE EXAMINATION CERTIFICATE

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

Certificate Number: **Sira 99ATEX3200X** Issue: **14**

Equipment: **The GL range of terminal enclosures**

Applicant: **Pepperl+Fuchs GmbH**

Address: Lilienthalstrasse 200  
68307 Mannheim, Germany

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

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.

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: 2009      EN 60079-7: 2007      IEC 60079-31: 2008      EN 60079-0: 2009

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.

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.

The marking of the equipment shall include the following:



II 1 G  
Ex ia IIC T\* Ga (Ta – \*\*°C to + \*\*°C)

or



II 2 GD  
Ex e IIC T\* Gb (Ta – \*\*°C to + \*\*°C)  
Ex tb IIIC T# °C Db (Ta – \*\*°C to + \*\*°C)  
IP64



II 2 D  
Ex tb IIIC T# °C Db (Ta – \*\*°C to + \*\*°C)  
IP6X

The temperature classifications and ambient temperature range are as follows:

\*T6, #T80°C (Ta = –40°C or –50°C to + 40°C)

\*T5, #T95°C (Ta = –40°C or –50°C to + 55°C)

\*T6, #T80°C (Ta = –40°C or –50°C to + 50°C)

\*T4, #T130°C (Ta = –40°C or –50°C to + 60°C)

Project Number 1845

Signed:

Title: Director of Operations

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Utrechtseweg 310,  
6812 AR, Arnhem,  
Netherlands



## SCHEDULE

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#### 13 DESCRIPTION OF EQUIPMENT

The GL Range of terminal enclosures comprises a range of glass fibre reinforced polyester enclosures to Sira 00ATEX3028U and fitted with specified terminals and sockets as indicated below. The GL Range is available in 14 sizes designated GL1 to GL14.

The 'Ex e' Ammeter, 'Ex me' Indicator Lamps and 'Ex de' rotary switches/ push buttons manufactured by Walsall have been previously permitted under Sira Certificate Sira 99ATEX3200 R01 V03, detail of which are contained in Sira assessment report number 53A11745. The certification status of these components has been reviewed and deemed acceptable with regards to compliance with the standards listed in section 1 of this report.

Manufacturer	Terminal Type	Certificate	Code
Weidmüller	SAK Series	IECEX SIR05.0032U	Ex e
	BK Series	IECEX SIR05.0035U	
	MK3 Series	IECEX SIR05.0036U	
	MK6 Series	IECEX SIR05.0037U	
	AKZ Series	IECEX SIR05.0038U	
	WDU 2.5TC Series	IECEX SIR05.0039U	
	WDUSL Series	IECEX SIR05.0040U	
	W Series	IECEX ULD05.0008U	
	Z Series	IECEX ULD05.0009U	
Phoenix Contact	UK1.5N – UK6N	IECEX KEM06.0034U	Ex e
	UK10N – UK35N	IECEX KEM06.0029U	
	UT2.5 – UT35	IECEX KEM06.0027U	
Walsall	Ex e Ammeter	Sira 02ATEX3380U	Ex e IIC T5
	Ex me Indicator Lamps	Sira 04ATEX5056U	Ex e mb IIC T6 Gb
	Ex de rotary switches and push buttons	Sira 03ATEX1269U	Ex ed IIC T6 Gb
Marechal	DXN1 plug/socket 500 V, 20 A	LCIE 99 ATEX 6027 X	II 2GD, Ex e d IIC T6, Ex tD A21 IP66/IP67, T70°C
	DXN3 plug/socket 500 V, 20 A	LCIE 00 ATEX 6010 X	II 2GD, Ex e d IIC T6, Ex tD A21 IP66/IP67, T78°C
	DXN6 plug/socket 750 V, 20 A 550V 5A (auxiliary contacts)	LCIE 02 ATEX 6029 X	II 2GD, Ex e d IIC T6, Ex tD A21 IP66/IP67, T80°C
Weidmüller	Type ZB Busbar	DEMKO03ATEX136028U	Ex e IIC

The GL Range of Junction Boxes are intended for use in Group II locations where the source of hazard is gas and/or combustible dust.

The maximum power dissipation for each enclosure size, temperature classification, and ambient temperature range is listed below. The enclosures are also marked, T130°C T95°C or T80°C as well as T6, T5, or T4.

Terminal Enclosure Type	Maximum power dissipation (W)
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	Ex e, Ex ia and Ex tb applications	
	T6 (Ta -50°C to + 40°C) T5 (Ta -50°C to + 55°C) T4(Ta -50°C to + 60°C)	T6 (Ta -50°C to + 50°C)
GL1	7.5	1.6
GL2	8.0	2.0
GL3	9.0	3.0
GL4	9.0	3.0
GL5	9.4	3.5
GL6	9.4	3.5
GL7	10.4	4.3
GL8	12.0	5.0
GL9	13.8	6.2
GL10	13.8	6.2
GL11	15.5	6.4
GL12	15.5	6.4
GL13	31.4	11.2
GL14	31.4	11.2

**Variation 1** - This variation introduced the following change:

- The introduction of additional enclosure sizes:

**Variation 2** - This variation introduced the following change:

- The introduction of an alternative earth continuity arrangement.

**Variation 3** - This variation introduced the following changes:

- To include the addition of 'EEx e' ammeters component certified as Sira 02ATEX3380U, 'EEx me' indicator lamps component certified as Sira 04ATEX5056U and 'EEx de' rotary switches and push buttons component certified as Sira 03ATEX1269U.

**Variation 4** - This variation introduced the following changes:

- The introduction of alternative type references, whereby the E900 junction boxes are known as the GL junction boxes.
- The introduction of alternative ambient temperature ranges and temperature classes.

**Variation 5** - This variation introduced the following change:

- To permit the junction boxes to be marked with an ingress protection of IP 67

**Variation 6** - This variation introduced the following changes:

- Following appropriate re-assessment to demonstrate compliance with the requirements of the EN 60079 series of standards, the documents originally listed in section 9, EN 50014:1997 (amendments 1 and 2), EN 50019:1994 and EN 50281-1-1:1998, were replaced by those currently listed, the markings in section 12 were updated accordingly and the conditions were modified to recognise the requirements of the latest standards.

**Variation 7** - This variation introduced the following changes:

- An alternative, new method of attaching Certification labels was approved; this uses a screw, nut and silicone sealant assembly.



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**Variation 8** - This variation introduced the following change:

- i. The following applicant company name and address change:

From:	To:
Walsall Limited.	Pepperl+Fuchs GmbH
Cornwallis Road	Lilienthalstrasse 200
West Bromwich	68307 Mannheim
West Midlands	Germany
B70 7DX	

- ii. The use of alternative label materials.  
iii. The addition of a Datamatrix code on the label.

**Variation 9** - This variation introduced the following changes:

- ii. Actuators, indicator lamps, potentiometers and switch modules manufactured by Bartec GmbH certified under PTB 00ATEX3114U, PTB 97ATEX1064U, PTB 05ATEX1064U and PTB 99ATEX1043U were approved to be fitted within the enclosures.  
iii. Recognition of reduced assigned power ratings applied when the switch modules manufactured by Bartec GmbH certified under PTB 99ATEX1043U is fitted was approved. The reduced maximum power ratings for the enclosures, calculated in accordance with EN 60079-7:2007, Annex E, are as follows:

Terminal Enclosure Type	Maximum power dissipation (W)
	Ex e, Ex ia and Ex tb applications
	T5 (Ta -50°C to +50°C)
GL1	3.75
GL2	4.0
GL3	4.5
GL4	4.5
GL5	4.7
GL6	4.7
GL7	5.2
GL8	6.0
GL9	6.9
GL10	6.9
GL11	7.75
GL12	7.75
GL13	15.7
GL14	15.7

**Variation 10** - This variation introduced the following changes:

- iv. Recertification of Certificate anomalies including:
- The standards listed in Section 9, EN 61241-0:2006 and EN61241-1:2004 were removed and replaced by EN60079-31:2009 which was historically introduced at Variation 7.
  - The marking in Section 12 was amended.
  - The product description was amended to remove the previous Zone A20 power dissipation details.
  - The table in Variation 9 was amended.
  - A Special Condition For Safe Use was applied.
  - Conditions of Certification were updated.



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#### 14 DESCRIPTIVE DOCUMENTS

##### 14.1 Drawings

Refer to Certificate Annexe.

##### 14.2 Associated Sira Reports and Certificate History

Issue	Date	Report No.	Comment
0	14 March 2000	R51X6419A	The release of prime certificate.
1	30 April 2004	R52V11443A	Re-issued to incorporate changes detailed in report number R53V11443A thereby incorporating previously issued variations 1 to 7
2	26 November 2004	R53A11891V	The introduction of Variation 1.
3	7 January 2005	R53A12151A	The introduction of Variation 2.
4	24 May 2005	R53A11745A	The introduction of Variation 3.
5	9 March 2006	R53A14302A	The introduction of Variation 4.
6	12 September 2006	R51A15182A	The introduction of Variation 5.
7	30 June 2009	R51A16981R3BD	This Issue covers the following changes: <ul style="list-style-type: none"><li>All previously issued certification was rationalised into a single certificate, Issue , Issues 0 to 6 referenced above are only intended to reflect the history of the previous certification and have not been issued as documents in this format.</li><li>The introduction of Variation 6.</li></ul>
8	29 April 2010	R21230A	The introduction of Variation 7. Marking details on page 1 corrected and improved
9	17 August 2010	R22473A/R22474A	The introduction of Variation 8.
10	04 November 2010	N/A	Re Issued to correct a typographical error
11	28 November 2011	R24281A/00	The introduction of Variation 9.
12	18 July 2014	R33285A/00	The introduction of Variation 10.
13	25 July 2014	N/A	Issued to correct a typographical error
14	15th October 2019	1845	<ul style="list-style-type: none"><li>Transfer of certificate <b>Sira 99ATEX3200X</b> from Sira Certification Service to CSA Group Netherlands B.V..</li><li>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></li></ul>



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- 15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)
- 15.1 Intrinsically safe and non-intrinsically safe circuits fitted within the same enclosure shall be separated as required by EN 60079-14.
- 15.2 The enclosures that are fitted with the Marechal Type DXN1, DXN3 and DXN6 sockets must be protected from impact greater than 4 joules.
- 15.3 When these devices contain potentiometers the user/installer shall ensure that the rating of the potentiometer that is stated on the product label is not exceeded.
- 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 99ATEX3200X

**Equipment:** The GL range of terminal enclosures

**Applicant:** Pepperl+Fuchs GmbH

**Issues 0 to 6** (The drawings listed with these Issues were rationalised and have been superseded by those detailed in Issue 7)

## Issue 7

Drawing No.	Sheets	Rev	Date (Sira Stamp)	Description
GL/NB/521	1 of 1	0	21 Oct 08	GL Range Glass Reinforced Polyester Enclosure Certification Label for reased Safety EX e Application.
GL/NB/522	1 of 1	0	21 Oct 08	GL Range Glass Reinforced Polyester Enclosure Certification Label for intrinsically Safe Ex ia Application.
GL/NB/523	1 of 1	0	21 Oct 08	Table of terminals for use in Junction Boxes
GL/NB/524	1 of 1	0	21 Oct 08	General Assembly of GL Type Junction Box
GL/NB/525	1 of 1	0	21 Oct 08	General Assembly of GL Type Junction Box Fitted with Pillar Terminal Board and Earth Continuity Plate
GL/NB/526	1 of 1	0	21 Oct 08	General Assembly of GL Type Enclosure in Sizes GL11-GL14 Fitted with Marechal Sockets.
GL/NB/527	1 of 1	0	21 Oct 08	General Assembly of GL type Enclosure fitted with meter Window and Ammeter.
GL/NB/528	1 of 1	0	21 Oct 08	General Assembly of GL Type Enclosure Fitted with Indicator Lamp.
GL/NB/529	1 of 1	0	21 Oct 08	General Assembly of GL Type Enclosure Fitted with push Buttons (S)
GL/NB/530	1 of 1	0	21 Oct 08	General assembly of GL Type Enclosure Fitted wit h Position Switch.
GL/NB/531	1 of 1	0	21 Oct 08	General Assembly of GL Type Enclosure fitted with Control Components.
GL/NB/532	1 of 1	0	21 Oct 08	General Assembly of GL Type Junction Box fitted with AK Type Busbar Terminals

## Issue 8

Drawing No.	Sheets	Rev	Date (Sira Stamp)	Description
GL/NB/125	1 of 1	0	20 Nov 09	Alternative label fixing

## Issue 9

Drawing No.	Sheets	Rev	Date (Sira Stamp)	Description
260-5412	1 of 1	-	17 Aug 2010	Example certification label

**Issue 10** No new drawings were introduced

## Issue 11

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Description
254-6425B	1 of 1	-	22 Nov 11	XL/FXL/SL with Bartec Control Functions

## Issue 12

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
254-5135	1 of 1	A	08 May 14	GL ATEX EX E Certification Label (was GL/NB/521)
254-5136	1 of 1	B	08 May 14	GL ATEX EX IA Certification Label (was GL/NB/522)
254-5145	1 of 1	A	08 May 14	GL Fitted With Control Components (was GL/NB/531)

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**Certificate Number:** Sira 99ATEX3200X  
**Equipment:** The GL range of terminal enclosures  
**Applicant:** Pepperl+Fuchs GmbH

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**Issue 13** No new drawings were introduced.

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