



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 09ATEX3178X** Issue: **3**

4 Equipment: **EA/DA1608, EA/DA2020, EA/DA3030 & EA/DA7535 Range of Junction Boxes and Control Stations and EA 7535 – BUS (Busbar Enclosure)**

5 Applicant: **Pepperl+Fuchs GmbH** (orporating the Govan brand)

6 Address: Lilienthalsraße 200
68307 Mannheim
Germany
These products may only be manufactured at any Pepperl+Fuchs, Facility that has been audited for the manufacture of the type of protection defined on this certificate; in addition, the site must also be listed on the Quality Assessment Notification PTB 16 ATEX Q001, PTB 97 ATEX Q008 and PTB 97ATEX Q020 or their subsequent issues.

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 60079-0:2006 EN 60079-7:2007 EN 61241-0:2006 EN 61241-1:2004
IEC 60079-0:2007 was used as guidance in respect of marking

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 2 G D

Ex eⓁ IIC TⓄ Gb IP 65/IP66¹

Ex tb IIIC TⓄC Db IP6x

Ta = -20°C to +40°C or Ta = -20°C to +55°C

EA Range of Junction Boxes & Control Stations

DA Range of Junction Boxes & Control Stations

① Other safety codings are applied dependant upon the components that are fitted, refer to Table 2 and condition of certification

② The temperature class and surface temperature for dust may be either T6, T5, T4, T80°C, T95°C, see tables 3 to 5

Project Number 1035

Signed:

Title: Director of Operations

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13 DESCRIPTION OF EQUIPMENT

The EA range of junction boxes and control stations is intended for reased safety applications and the DA range is used for dust protection. Both types employ a die-cast aluminium alloy and lid forming a sealed enclosure that is fitted with separately certified devices, the applicable coding being dependant on the components used, see Tables 1 to 5. The enclosures may also be constructed in cast steel or cast iron with a minimum 150 grade. The lid is secured to the body using slotted head stainless steel screws and a neoprene gasket is provided for sealing purposes. Holes are drilled into the side and end walls of the enclosure body to accommodate suitably certified cable glands and closure devices. The EA range also includes a Busbar Enclosure (Model EA 7535-Bus).

Table 1: Model numbers and dimensions

Model number	Dimension (mm)	Model number	Dimension (mm)
EA1608	173 x 98 x 74	DA1608	173 x 98 x 74
EA2020	210 x 210 x 155	DA2020	210 x 210 x 155
EA3030	305 x 305 x 160	DA3030	305 x 305 x 160
EA7535	750 x 350 x 155	DA7535	750 x 350 x 155
EA7535-bus	750 x 350 x 155		

Table 2: Certified components permitted

Component type	Certificate number	Pertinent code
Weidmüller Terminal blocks, W-Reihe, type feed through and PE	IECEX ULD 05.0008U	Ex e II
Terminal blocks and Protective conductor terminal blocks series SAK and EK	IECEX KEM 06.0014U	Ex e II
Terminal blocks series UK...N	IECEX KEM 06.0034U	Ex e II
SAK K range of rail mounted feed-through terminals	IECEX SIR 05.0032U	Ex e II
Type BK Range of Terminal Strips	IECEX SIR 05.0035U	Ex e II
Type MK 3 Range of Terminal Strips	IECEX SIR 05.0036U	Ex e II
Type MK 6 Range of Terminal Strips	IECEX SIR 05.0037U	Ex e II
AKZ Range of Rail Mounted Feed-Through Terminals & AKE Range of Rail Mounted Protective Earth Terminals	IECEX SIR 05.0038U	Ex e II
Indicator light, type 8010/..-.-.	IECEX PTB 06.0016U	Ex de IIC
Indicating light for panel mounting types 8013/3.2-.. and 8013/3.4-..	IECEX PTB 07.0012U	Ex dem IIC
Indicating light for panel mounting types 8013/3.1.. and 8013/3.3.. ①	PTB 02ATEX2131U	Ex de mb IIC T6
A Moving Iron Ammeter Type AWAM2	IECEX BAS 07.0043U	Ex e II
A Moving Iron Ammeter Type 8045/2	IECEX PTB 06.0017U	Ex e II Ex em II
Circuit module and control circuit switch type 07-3..-1../..	PTB 99ATEX1043U	EEx de IIC
Control and signalling device adapters, types 05-0003-00../. ①	PTB 00ATEX3114U	Ex e II
Contact element/isolating terminal type 8082/..-.-.	PTB 00ATEX1031U IECEX PTB 06.0011U	Ex de IIC



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Component type	Certificate number	Pertinent code
CZ0201 series explosion proof switch module	DNV-2008-OSL-ATEX-21657U IECEX CQM 08.0005U	Ex de IIC
Operation head Type P/K/L/... ①	IECEX CQM 08.0012U	Ex e II
Fuse, type 8560/..	IECEX PTB 06.0056U	Ex em II

① These devices have previously been certified as suitable for use in dust, therefore, when incorporated into the DP junction boxes and control stations, they may be fitted in the lid of the enclosure.

Table 3: Maximum Power Dissipation

EA range				
Model number	Max power dissipations (W)			
	T6 (Ta 40°C)	T5 (Ta 40°C)	T6 (Ta 55°C)	T5 (Ta 55°C)
EA1608	13	17	8.5	13
EA2020	23.5	29.5	14.5	23.5
EA3030	41	51.5	25	41
EA7535	61	76.5	38	61
Temperature class T4 is assigned when fitted with 6.3 A fuse listed in Table 4				
EA range				
Model number	Max power dissipations (W)			
	T5 (Ta 40°C)		T4 (Ta 55°C)	
EA7535-bus	76.5 (Ex e only)		85 (Ex e only)	
DA range				
Model number	Max power dissipations (W)			
	T80°C (Ta 40°C)	T95°C (Ta 40°C)	T80°C (Ta 55°C)	T95°C (Ta 55°C)
DA1608	13	17	8.5	13
DA2020	23.5	29.5	14.5	23.5
DA3030	41	51.5	25	41
DA7535	61	76.5	38	61

Table 4: EA Range – Maximum Current and Temperature Classification

Model Number	Maximum current (A)	
	T5 (Ta 40°C)	T4 (Ta 40°C)
EA Range with Fuse Type 8560/..	4	6.3

The following limitations apply when fitted with the separately certified Ex e moving iron ammeter Type AWAM2 previously assessed under IECEX BAS 07.0043.U or window:

- A short circuit protection device to be fitted in series with meter and to be rated at not greater than 10 A.
- The maximum power dissipation of the equipment listed in Table 5 must not be exceeded.
- Meter to only be fitted to enclosures where the internal ambient of enclosure is restricted to less than 70 °C.
- Maximum service temperature of the Nylon 6 window material is limited to 65 °C.
- Meter and window only fitted to enclosure types: EA/DA2020, EA/DA3030 and EA/DA7535

The following additional limitations apply when fitted with the separately certified Ex e moving iron ammeter Type 8405/2 previously assessed under IECEX PTB 06.0017U:

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- Shall only be used in a rated ambient of up to +40°C and a temperature class of T6.
- The maximum power dissipation of the equipment listed in Table 5 must not be exceeded.

Table 5: Maximum Allowable Power Dissipation for Equipment fitted with Ammeter Type AWAM2 or Type 8045/2 and/or Window

EA range				
Model number	Max power dissipations (W)			
	T6 (Ta 40°C)	T5 (Ta 40°C)	T6 (Ta 55°C)	T5 (Ta 55°C)
EA1608	13	17	8.5	10
EA2020	23.5	29.5	14.5	22.5
EA3030	41	51.5	25	30
EA7535	61	62	24.5	24.5
Temperature class T4 is assigned when fitted with 6.3 A fuse listed in Table 4				
DA range				
Model number	Max power dissipations (W)			
	T80°C (Ta 40°C)	T95°C (Ta 40°C)	T80°C (Ta 55°C)	T95°C (Ta 55°C)
DA1608	13	17	8.5	10
DA2020	23.5	29.5	14.5	22.5
DA3030	41	51.5	25	30
DA7535	61	62	24.5	24.5

Notes:

1. The IP X5 and IP X6 rating is not endorsed by Sira as this is considered to be outside the scope of the standards listed.
2. Only applied when Ex tb IIIC marked. (When fitted with capacitor or Power consuming devices)
3. Cable warning label only required for T5 application.
4. When fitted with the window.

Variation 1 - This variation introduced the following change:

- i. The Applicants name and address was changed from Govan Industries Pty Ltd, 131-149 Link Drive, Campbellfield, Victoria, 3061, Australia to that currently shown in Sections 5 and 6 above.

Variation 2 - This variation introduced the following changes:

- i. The Notified Body number, responsible for quality, was changed to 0102.
- ii. The alternative manufacturing locations were removed from the description as they are now covered by the statement in section 6 of the certificate.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.



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14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	19 June 2009	R51A18919H	The release of the prime certificate.
1	10 July 2013	R30253A/00	The introduction of Variation 1.
2	01 February 2017	R70089891A	This Issue covers the following changes: <ul style="list-style-type: none">• 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>• The introduction of Variation 2.
3	15th October 2019	1035	<ul style="list-style-type: none">• Transfer of certificate Sira 09ATEX3178X from Sira Certification Service to CSA Group Netherlands B.V..

15 **SPECIFIC CONDITIONS OF USE** (denoted by X after the certificate number)

15.1 **WARNING: POTENTIAL ELECTROSTATIC CHARGING HAZARD** – The polycarbonate window and nylon window shroud may generate an ignition capable level of electrostatic charge, refer to the instruction manual on how to install and maintain the equipment safely and prevent static charge build up.

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 09ATEX3178X

Equipment: EA/DA1608, EA/DA2020, EA/DA3030 & EA/DA7535 Range of Junction Boxes and Control Stations and EA 7535 – BUS (Busbar Enclosure)

Applicant: Pepperl+Fuchs GmbH (orporating the Govan brand)

Issue 0

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
GC0311	1 to 3	2	18 Jun 09	EA**** & DA**** Control Station
GC0300	1 of 1	1	18 Jun 09	Junction Box & Control Station. EA1608 Cast & DA1608 Cast
GC0301	1 of 1	1	18 Jun 09	Body Detail. EA1608 Cast & DA1608 Cast
GC0302	1 of 1	1	18 Jun 09	Cover Detail. EA1608 Cast & DA1608 Cast
GC0303	1 of 1	1	18 Jun 09	Junction Box & Control Station. EA2020 Cast & DA2020 Cast
GC0304	1 of 1	1	18 Jun 09	Junction Box & Control Station. EA3030 Cast & DA3030 Cast
GC0305	1 of 1	1	18 Jun 09	Cover Detail. EA7535 Cast & DA7535 Cast
GC0306	1 of 1	1	18 Jun 09	Body Detail. EA7535 Cast & DA7535 Cast
GC0310	1 of 1	1	18 Jun 09	Junction Box & Control Station. EA7535 Cast & DA7535 Cast
GC0285	1 of 2	0	18 Jun 09	Square Window Details

Issue 1

Drawing	Sheets	Rev.	Date (Sira Stamp)	Description
GC 0652	1 to 2	1	28 May 13	Compliance Name Plate detail for company name change

Issue 2 No new drawings were introduced.

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