



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 10ATEX1341X** Issue: **3**

4 Equipment: **FH24/2 range of enclosures**

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

6 Address: LilienthalsraÙe 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 60079-0:2009

EN 60079-1:2007

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 2 G

Ex d IIB +H₂ T¹ Gb IP 66² or

Ex d IIB T¹ Gb IP 66² (when fitted with the MN/SM operators)

Ta = -20°C to +40°C, -20°C to +55°C or -20°C to +60°C as applicable, refer to the product description

¹T6, T5 or T4 as applicable, refer to the product description

²IP 66 rating is not endorsed by Sira as this is considered to be outside the scope of the standards listed.

Project Number 1036

Signed:

Title: Director of Operations

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



SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The FH24/2 Range comprises a hinged cover forming a flameproof flange joint. The cover is secured using 34 off M10 x 1.5 stainless steel socket head fasteners. The main body and cover are constructed from either LM4 die cast aluminium alloy with the option of LM6 die cast aluminium, 316L and 304 cast stainless steel, or cast iron Grade 150 (ISO 185) and there is an option of a toughened glass window to be fitted within the cover. The enclosures are fitted with neoprene rubber O-rings for the prevention of water and dust ingress to a rating of IP 66.

The enclosures have a maximum power dissipation as follows:

Model No.	Temperature Class	Maximum Power Dissipation (W)/Minimum rating of cable (°C)		
		Ta +40°C	Ta +55°C	Ta +60°C
All models	T6	260 W/*	136 W/*	109 W/*
	T5	340 W/* 370 W/84°C	177 W/* 260 W/92°C	141 W/* 109 W/93°C
Models: FH24/2-JB FH24/2-CP FH24/2-CB	T4**	625 W/105°C	425 W/105°C	385 W/105°C
* No minimum thermal rating required for cable.				
** Temperature class T4 applies to models FH24/2-JB, FH24/2-CP, FH24/2-CB only				

The FH24/2 range may be supplied in any of the following configurations:

Type Reference	Description
FH24/2-JB	Junction box having a plain cover
FH24/2-CP	Control panel having a cover fitted with Govan certified under Certificate IECEX SIM 08.0009U
FH24/2-CB	Main isolator and distribution board fitted with Govan certified under Certificate IECEX SIM 08.0009U
FH24/2-A2	Instrument control panel fitted with Govan certified under Certificate IECEX SIM 08.0009U and a viewing window
FH24/2-A4	Instrument control panel fitted with Govan certified under Certificate IECEX SIM 08.0009U and a viewing window

Each enclosure has threaded entries in the side walls for the lusion of separately certified cable glands and/or blanking elements certified as Ex d IIB+H₂ Gb minimum and also that maintain the IP 66 protection. In addition, certified threaded plugs, adapters and reducers may be fitted, there are certified under IECEX CSA 06.0008U.

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.



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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.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	10 December 2010	R22907A/00	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	1036	<ul style="list-style-type: none"> • Transfer of certificate Sira 10ATEX1341X from Sira Certification Service to CSA Group Netherlands B.V..

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

15.1 The following have a maximum constructional gap (ic) less than that required by Tables 1 and 2 of EN 60079-1 and hence are as detailed below:

Flamepath	Max Gap (mm) Comment
Body/Cover (Flanged Joint)	0.04 (Group IIB)
Model FH24/2-CB; toggle type circuit breaker (Cylindrical Joint)	0.15 (Group IIB)



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15.3 In order to maintain the temperature classification, the maximum power dissipation shall not exceed the following values:

Model No.	Temperature Class	Maximum Power Dissipation (W)/Minimum rating of cable (°C)		
		Ta +40°C	Ta +55°C	Ta +60°C
All models	T6	260 W/*	136 W/*	109 W/*
	T5	340 W/* 370 W/84°C	177 W/* 260 W/92°C	141 W/* 109 W/93°C
Models: FH24/2-JB FH24/2-CP FH24/2-CB	T4**	625 W/105°C	425 W/105°C	385 W/105°C
* No minimum thermal rating required for cable.				
** Temperature class T4 applies to models FH24/2-JB, FH24/2-CP, FH24/2-CB only				

15.4 The M10 cover fasteners shall have a minimum yield stress of 700 N/mm².

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 10ATEX1341X

Equipment: FH24/2 range of enclosures

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

Issue 0

Drawing No.	Sheets	Rev.	Date (Sira Stamp)	Title
GC0532	1 of 1	2	02 Dec 10	Ex d IIB+H2 T* IP66 Junction Box G. Arrangement & Detail Govan FH24/2-JB
GC0533	1 of 1	1	02 Dec 10	Ex d IIB+H2 T* IP66 Control Panel CAT No FH24/2-CP
GC0534	1 of 1	1	02 Dec 10	Ex d IIB+H2 T6/T5 IP66 Instrument Control Panel CAT No FH24/2-A2
GC0535	1 of 1	1	02 Dec 10	Ex d IIB+H2 T6/T5 IP66 Instrument Control Panel CAT No FH24/2-A4
GC0536	1 of 1	1	02 Dec 10	Ex d IIB+H2 T* IP66 Distribution Board CAT No FH24/2-CB

Issue 1

Drawing No.	Sheets	Rev.	Date (Sira Stamp)	Title
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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