



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 07ATEX1138X** Issue: **3**

4 Equipment: **FH400 Range of Flameproof Enclosures**

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 60079-1:2004

EN 60529:1992 ( . A1 & A2)

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 +Hydrogen T6 IP 66

Project Number 1030

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 FH400 Range are rectangular enclosures fitted with a hinged cover forming a flameproof flange joint. The cover is secured using 24 off M10 stainless steel socket head fasteners. The main body and cover are constructed from die cast aluminium heat treated alloy or stainless steel and there is an option of an A2 toughened glass window to be fitted within the cover. The enclosures are fitted with 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:

Maximum Power Dissipation (W)	Thermal Rating of Cable (°C)
77	75
125	90
153	105

The FH400 enclosures may be supplied with the following options:

- Plain with no entries
- Fitted with an A2 window and up to a maximum of 18 threaded entries for the fitting of separately certified module components
- Up to a maximum of 28 threaded entries for the fitting of separately certified module components
- Fitted with a circuit breaker operator

Entries may be between M20 to M63 and/or between ½" to 2" NPT.

The FH400 range may be supplied in any of the following configurations:

Type Reference	Description
FH400-JB	Junction box having a plain cover and containing feed through type terminals
FH400-CP	Control panel having a cover fitted with up to 24 Govan switch or indicator light modules and containing relays, timers, contactors and motor starters
FH400-A2	Instrument control panel having an A2 window and containing instruments or process control equipment
FH400-CB	Distribution board having a cover fitted with up to 10 switch operators and containing circuit breaker, load-break or isolating switches

The following Govan components may be fitted:

1. MN-1, 2, 3, 4, 5, 6 & 8 – Push button module
2. MN-9 – Indicator light module (andescent type) for Group IIB applications
3. MN-11 – Indicator light module (LED transformer type) for Group IIB applications
4. SM-A201 – 10 Amp to 20 Amp switch module
5. SM-A203 – 20 Amp to 40 Amp switch module
6. MN-7 - Plug module for Group IIB applications

**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.



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- 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	25 September 2007	R51A16570H	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"> <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> <li>• The introduction of Variation 2.</li> </ul>
3	15th October 2019	1030	<ul style="list-style-type: none"> <li>• Transfer of certificate Sira 07ATEX1138X from Sira Certification Service to CSA Group Netherlands B.V..</li> </ul>

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

- 15.1 The maximum constructional gap ( $i_c$ ) is less than that required by Tables 1 and 2 of EN 60079-1 as detailed below:

Flamepath	Max Gap (mm)	Comment
Body/Cover	<0.03	
Spindle/Cover	0.05	

- 15.2 The M10 cover fasteners shall have a minimum yield stress of 450 N/mm<sup>2</sup>

#### 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 07ATEX1138X

**Equipment:** FH400 Range of Flameproof Enclosures

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

## Issue 0

Drawing No:	Sheets	Rev.	Date (Sira Stamp)	Description
GC0234	1 of 1	2	07 Sep 07	Ex d IIB +Hydrogen T6 IP66 FH400-JB
GC0235	1 of 1	1	07 Sep 07	Ex d IIB +Hydrogen T6 IP66 FH400-CP
GC0236	1 of 1	1	07 Sep 07	Ex d IIB +Hydrogen T6 IP66 FH400-A2
GC0237	1 of 1	1	07 Sep 07	Ex d IIB +Hydrogen T6 IP66 FH400-CB
C10538	1 of 1	0	07 Sep 07	Typical Arrangement of wooden block
C3621	1 to 4	2	07 Sep 07	Equipment listing

## 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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