



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 07ATEX1136X** Issue: **3**

4 Equipment: **F160 & FH160 Range of Junction Boxes, Control panels, Instrument control panels and Distribution boards**

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 60079-1:2007

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

F160 Enclosures

Ex d IIB T6 IP66

FH160 Enclosures

Ex d IIB +H₂ T6 IP66

Project Number 1028

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 F160 and FH160 Range are rectangular enclosures fitted with a bolted cover forming a flameproof flange joint. The main body and cover are constructed from cast aluminium alloy, stainless steel or cast iron and there is an option of a toughened glass window 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 maximum power dissipation for the enclosures is 160 W and 140 W when the enclosures are fitted with a window.

The F160 and FH160 range may be supplied in any of the following configurations:

Type Reference	Description
FH160-JB	Junction box having a plain cover and containing feed through type terminals
FH160-CP	Control panel having a cover fitted with up to 12 Govan switch or indicator light modules and containing relays, timers, contactors and motor starters
FH160-CB	Distribution board having a cover fitted with up to 8 switch operators and containing circuit breaker, load-break or isolating switches
F160-A2	Instrument control panel having an A2 window fitted with up to 6 Govan switch or indicator light modules and containing relays, timers, contactors and motor starters

The enclosures may be supplied with Govan MN-7 (F160) or MNH-7 (FH160) blanking plug modules to close unused apertures. The following Govan components may be fitted:

1. MN-1, 2, 3, 4, 5 & 8 – Push button module for Group IIB applications
2. MN-6 – Push button module (pad lockable) for Group IIB applications
3. MN-7 - Plug module for Group IIB applications
4. MN-9 – Indicator light module (andescent type) for Group IIB applications
5. MN-11 – Indicator light module (LED transformer type) for Group IIB applications
6. SM-10 – 10 Amp to 20 Amp switch module for Group IIB applications
7. SM-20 to 63 Amp – Switch module for Group IIB applications
8. MNH-1, 2, 3, 4, 5 & 8 – Push button module for Group IIB +Hydrogen applications
9. MN-7 - Plug module for Group IIB +Hydrogen applications
10. MN-9 – Indicator light module (andescent type) for Group IIB +Hydrogen applications
11. MN-11 – Indicator light module (LED transformer type) for Group IIB +Hydrogen applications
12. SMH-A203 – Switch module for Group IIB +Hydrogen 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.
- ii. The alternative manufacturing locations were removed from the description as they are now covered by the statement in section 6 of the certificate.



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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 number	Comment
0	02 October 2007	R51A16570F	The release of 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	1028	<ul style="list-style-type: none"> Transfer of certificate Sira 07ATEX1136X 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 maximum constructional gap (i_c) is less than that required by Table 1 of EN 60079-1 as detailed below:

Flamepath	Max Gap (mm)	Comment
Body/Cover FH160	<0.04	
Window/Cover F160 A2	<0.15	
Window/Cover F160 A2	<0.15	
Spindle/Bush F160 circuit breaker switch operator	-0.03	
Spindle/Bush F160 circuit breaker switch operator	0.08	
Spindle/Bush FH160 circuit breaker switch operator	0.10	

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 07ATEX1136X

Equipment: F160 & FH160 Range of Junction Boxes, Control panels, Instrument control panels and Distribution boards

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

Issue 0

Drawing No:	Sheets	Rev.	Date (Sira Stamp)	Description
C0774	1 of 1	9	29 Aug 07	Govan Module range for Ex d IIB T6 IP66 Enclosures
C3589	1 of 1	4	25 Sep 07	Ex d IIB T6 IP66 Junction Box F160-JB
C3593	1 of 1	3	25 Sep 07	Ex d IIB T6 IP66 Control Panel F160-CP
C3594	1 of 1	4	25 Sep 07	Ex d IIB T6 IP66 Instrument Control Panel F160-A2
C3595	1 of 1	3	25 Sep 07	Ex d IIB T6 IP66 Distribution Board F160-CB
C3592	1 of 4	2	01 Oct 07	Equipment Listing for FH160 range
C3592	2 of 4	2	01 Oct 07	Equipment Listing for FH160 range
C3592	3 of 4	2	01 Oct 07	Equipment Listing for FH160 range
C3592	4 of 4	2	01 Oct 07	Equipment Listing for FH160 range
C5122	1 of 4	3	03 Sep 07	Ex d IIB+Hydrogen T6 IP66 Enclosures
C5122	2 of 4	3	03 Sep 07	Ex d IIB+Hydrogen T6 IP66 Enclosures
C5122	3 of 4	5	03 Sep 07	Ex d IIB+Hydrogen T6 IP66 Enclosures
C5122	4 to 4	4	03 Sep 07	Ex d IIB+Hydrogen T6 IP66 Enclosures

Issue 1

Drawing	Sheets	Rev.	Date (Sira Stamp)	Description
GC 0651	1 to 2	0	07 Mar 13	Compliance Name Plate detail for company name change

Issue 2 No new drawings were introduced

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