



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:

IECEx TSA 07.0005X

issue No.:2

Status:

Current

Date of Issue:

2013-07-15

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Certificate history:

Issue No. 2 (2013-7-15)

Issue No. 1 (2010-4-16)

Issue No. 0 (2007-3-14)

Applicant:

Pepperl+Fuchs GmbH

Lilienthalstraße 200

68307 MANNHEIM

Germany

Electrical Apparatus:

**GOVAN brand - FW Range of Junction Boxes, Control Stations, Indicator Stations,
Alarm Stations and Limit Switch Stations**

Optional accessory:

Type of Protection:

Ex d IIC T6 IP66

Marking:

Pepperl+Fuchs

Type FW-*

Ex d IIC T6 IP66 or

Ex d IIC T6 IP66 -20 °C ≤ Ta ≤ +55 °C or

Ex d IIC T6 IP66 -20 °C ≤ Ta ≤ +60 °C *

Serial Number:

IECEx TSA 07.0005X

* Refer to attached annexe

Approved for issue on behalf of the IECEx
Certification Body:

Ujen Singh

Position:

Quality & Certification Manager

Signature:
(for printed version)

Date:


15 JULY 2013

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the **Official IECEx Website**.

Certificate issued by:

TestSafe Australia
919 Londonderry Road
Londonderry NSW 2753
Australia





IECEx Certificate of Conformity

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Manufacturer: **Pepperl+Fuchs (Australia) Pty Ltd**
131-149 Link Drive
Campbellfield VIC 3061
Australia

Additional Manufacturing
location(s):

**Pepperl+Fuchs
GmbH**
Lilienthalstraße 200
68307 MANNHEIM
Germany

**Pepperl+Fuchs
GmbH**
Geschäftsbereich PA
Werk Bühl / Baden
Bußmatten 10-12
77815 Bühl
Germany

**Pepperl+Fuchs
Manufacturing UK
Ltd**
Unit 8-9, Woden Road
West,
The Woodbank
Trading Estate,
Wednesbury
West Midlands
WS10 7SU
United Kingdom

Pepperl+Fuchs srl
Via Galileo Galilei 1/B,
1-20875 Burago (MB)
Italy

**Pepperl+Fuchs
(Manufacturing) Pte
Ltd**
P+F Building, 18 Ayer
raja Crescent,
139942
Singapore

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition: 4.0

IEC 60079-1 : 2003 Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
Edition: 5

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

AU/TSA/ExTR06.0038/00

AU/TSA/ExTR06.0038/01

Quality Assessment Report:

AU/TSA/QAR06.0004/05
DE/PTB/QAR06.0015/03

DE/PTB/QAR06.0007/03
DE/PTB/QAR10.0008/01

DE/PTB/QAR06.0008/05
FR/INE/QAR12.0003/00



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Refer to attached annexe for details.

CONDITIONS OF CERTIFICATION: YES as shown below:

Refer to attached annexe for details.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Refer to attached annexe for details.



IECEx Certificate of Conformity Annexe

Annexe for Certificate No.:	IECEx TSA 07.0005X	Issue No.:	2
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Equipment:

The FW Range of Junction Boxes, Control Stations, Indicator Stations, Alarm Stations and Limit Switch Stations are of single body construction and are intended for Ex d applications. Each enclosure consists of a cylindrical body fitted with a bolted cover, which forms a flameproof spigot joint. There are two types of covers that may be fitted to a common base: a flat plain cover; or a raised cover fitted with an entry for a switch or indicator light module. The FW Range may be supplied in any of the following configurations:

- Control Station – the base is fitted with either: a raised cover, which may be fitted with a module having a pushbutton switch, rotary switch, an incandescent indicator light or an LED indicator light; or a flat cover, when the base is fitted with a roller actuator type limit switch or a plunger actuator type limit switch. In the case of the "Breakglass Alarm Station", the raised cover is fitted with an additional housing with a glass window.
- Junction Box – the base is fitted with either: a raised cover, which is fitted with a module plug; or a flat cover.

The full range of permissible components and their ratings that may be installed in each enclosure are detailed in drawing C2031 Sheets 1 & 2 of 2. The enclosures may be fitted with any of the following Govan modules:

- MN01, 2, 3, 4, 5 & 8 – Push button module for Group IIB applications.
- MN06 – Push button module (paddlockable) for Group IIB applications.
- MN07 – Plug module for Group IIB applications.
- MN09 – Indicator light module (incandescent type) for Group IIB applications.
- MN11 – Indicator light module (LED transformer type) for Group IIB applications.
- SM10 – 10 Amp to 20 Amp switch module for Group IIB applications.

Equipment Schedule:

- FWI -1 SINGLE PUSHBUTTON STATION: RECESSED ACTUATOR C/W 1 x MN01
FWI -2 SINGLE PUSHBUTTON STATION: RAISED ACTUATOR C/W 1 x MN02
FWI -3 SINGLE PUSHBUTTON STATION: MUSHROOM HD MAINTAINED ACTUATOR C/W 1 x MN03
FWI -4 SINGLE PUSHBUTTON STATION: MUSHROOM HD KEY TO I-ESET C/W 1 x MN04
FWI -5 SINGLE PUSHBUTTON STATION: KEY TO OPERATED ACTUATOR C/W 1 x MN05
FWI -6 SINGLE PUSHBUTTON STATION: MUSHROOM HD PADLOCK ABLE C/W 1 x MN06
PULL TO RESET ACTUATOR
FWI -8 SINGLE PUSHBUTTON STATION: MUSHROOM HD ACTUATOR C/W 1 x MN08
FWI -9 INCANDESCENT INDICATOR STATION : GLOBE RATING 6V TO 110VAC 1W C/W 1 x MN09
FWI -11 LED INDICATOR STATION: LED LAMP 24VDC OR 240VAC C/W 1 x MN11
FWI -Q BREAKGLASS ALARM STATION: MUSHROOM HD MAINTAINED ACTUATOR
FWI -LP LIMIT SWITCH STATION: PLUNGER TYPE ACTUATOR

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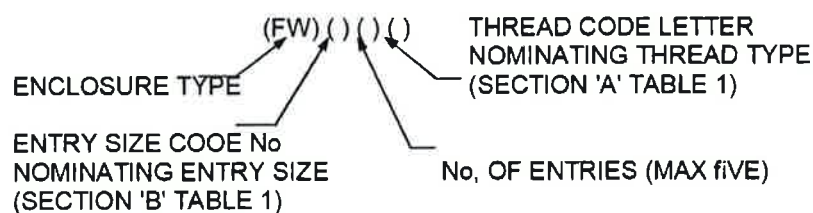
FWI -LR LIMIT SWITCH STATION: ROLLER TYPE ACTUATOR

FW201 ISOLATOR SWITCH: 2 POLE, 20AMP AC1 ON/OFF C/W CA10-A201

FW210 SELECTOR SWITCH: 1 POLE, 20AMP AC1 WITH OFF C/W CA10-A210

FW220 SELECTOR SWITCH: 1 POLE, 20AMP AC1 WITHOUT OFF C/W CA10-A220

JUNCTION BOXES	
FW22	JUNCTION BOX: 2 WAY ENTRY
FW23	JUNCTION BOX: 3 WAY ENTRY
FW24	JUNCTION BOX: 4 WAY ENTRY
FW25	JUNCTION BOX: 5 WAY ENTRY
FW32	JUNCTION BOX: 2 WAY ENTRY
FW33	JUNCTION BOX: 3 WAY ENTRY
FW34	JUNCTION BOX: 4 WAY ENTRY
FW35	JUNCTION BOX: 5 WAY ENTRY



EXAMPLES 1/ FW 22M IS A FW ENCLOSURE WITH 2 x 20mm ENTRIES
2/ FW 24T IS A FW ENCLOSURE WITH 4 x 3/4" NPT ENTRIES

Condition of certification:

1. It is a condition of manufacture that the instructions for the equipment shall be supplied to the purchaser.
2. It is a condition of safe use that the manufacturer's instructions be consulted whenever the apparatus is overhauled or repaired, as the maximum constructional gaps for the non-threaded joints are less than that required by Table 1 of IEC 60079-1:2003.

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Drawing list:

Document No.	Document Title	Issue	Date (yyyy-mm-dd)
C0774	Govan Module Range for Ex d IIB T6 IP66 Certified Enclosures	9	2006-12-15
C1510	Ex d IIB T6 IP66 Break Glass Alarm Cat No FW1-Q	2	2007-02-15
C2031 Sheets 1 & 2 of 2	Ex d IIB T6 IP66 Junction Box & Module Enclosure Cat No FW-	3	2007-02-15
C2353	Ex d IIB T6 IP66 Limit Switch Cat No FW1-LP & LR	2	2007-02-15
FWGMI	General Installation & Maintenance Instructions FW Enclosure Range / Ex d	1	2007-02-15

Schedule of Variations

Variations Permitted by Issue 1:

1. Inclusion of optional ambient temperature ranges -20 °C to +55 °C or -20 °C to +60 °C in accordance with Table 1:

Table 1

Ambient Temperature range	Model Number	Temperature class
-20 °C to +55 °C	FWI -9: INCANDESCENT INDICATOR STATION: GLOBE RATING 6V TO 110VAC 1W C/W 1 x MN09, and FWI -11: LED INDICATOR STATION: LED LAMP 24VDC OR 240VAC C/W 1 x MN11	T6
-20 °C to +60 °C	All other models	T6

2. Inclusion of optional material for the enclosure body: Cast stainless steel grade 316 or 304, Cast Iron.
3. Updated from Group IIB to IIC.

Conditions of Certification pertaining to Issue 1 of this Certificate:

All previous conditions of certification still apply.

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Drawing list pertaining to Issue 1 of this Certificate:

Document No.	Document Title	Issue	Date (yyyy-mm-dd)
C0774	Govan Module Range for Ex d IIC T6 IP66 Certified Enclosures	10	2010-04-09
C1510	Ex d IIC T6 IP66 Break Glass Alarm Cat No FWI-Q	3	2010-04-09
C2031 Sheets 1 of 2	Ex d IIC T6 IP66 Junction Box & Module Enclosure Cat No FW-	5	2010-04-09
C2031 Sheets 2 of 2	Ex d IIC T6 IP66 Junction Box & Module Enclosure Cat No FW-	4	2010-04-09
C2353	Ex d IIC T6 IP66 Limit Switch Cat No FWI-LP & LR	3	2010-04-09
FWGMI Sheets 1 to 2	General Installation & Maintenance Instructions FW Enclosure Range / Ex d	2	2010-04-09

Variations Permitted by Issue 2:

Change of applicant's name, marking label and additional manufacturing locations.

Conditions Relating to Variations Permitted by Issue 2:

All the previous conditions of certificate still apply.

Drawings Relating to Variations permitted by Issue 2:

Drawing No.	Drawing Title	Issue/ Revision	Date (yyyy-mm-dd)
GC0651 (2 sheets)	Compliance Name plate detail for company name change to Pepperl+Fuchs	0	2013-02-19

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