IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEx TSA 07.0029**

Page 1 of 5

Certificate history:
Issue 3 (2016-11-16)
Issue 2 (2013-07-15)
Issue 1 (2010-03-18)
Issue 0 (2007-06-26)

Status: **Current**

Issue No: 4

Date of Issue: 2021-03-16

Applicant: **Pepperl+Fuchs SE**
Lilienthalstrasse 200
68307 Mannheim
Germany

Equipment: **GOVAN brand - F7 Range of Junction Boxes, Control Stations and Specialised Equipment**

Optional accessory:

Type of Protection: **Ex d / Ex tD**

Marking:
Ex d IIB T6 IP66
Ex d IIB T6 IP66 - 20 °C ≤ Ta ≤ + 55 °C or
Ex d IIB T6 IP66 - 20 °C ≤ Ta ≤ + 60 °C *
Ex tD A21 T80 °C IP66
Ex tD A21 T 80 °C IP 66 - 20 °C ≤ Ta ≤ + 55 °C or
Ex tD A21 T 80 °C IP 66 - 20 °C ≤ Ta ≤ + 60 °C *
* Refer to Table 1 in the attached annexe

Approved for issue on behalf of the IECEx Certification Body: **Ujen Singh**

Position: **Quality & Certification Manager**

Signature:
(for printed version)

Date:
(for printed version)

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.
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Certificate issued by:

TestSafe Australia
919 Londonderry Road
Londonderry NSW 2753
Australia

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Manufacturer: **Pepperl+Fuchs SE**
Lilienthalstrasse 200
68307 Mannheim
Germany

Manufacturing locations:

Pepperl & Fuchs Manufacturing (India) Private Limited
Plot No. A-13
Sipcot Industrial Growth centre
ORAGADAM TAMIL NADU 602105
India

Pepperl + Fuchs (Australia) Pty Ltd
131-149 Link Drive
Campbellfield Vic 3061
Australia

Pepperl+Fuchs Gulf LLC
Fawazia Industrial Area, Near Khobar Askan
P. O. Box 1248
Al-Khobar 31952
Saudi Arabia

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 equipment 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 Edition:4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1:2003 Edition:5	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 61241-0:2004 Edition:1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1:2004 Edition:1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

This Certificate **does not** indicate compliance with 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 Reports:

AU/TSA/ExTR06.0052/00 AU/TSA/ExTR06.0052/01

Quality Assessment Reports:

DE/PTB/QAR06.0015/15 US/UL/QAR19.0002/01

IECEx Certificate of Conformity

Certificate No.: **IECEx TSA 07.0029** Page 3 of 5

Date of issue: 2021-03-16 Issue No: 4

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The F7 Range of Junction Boxes, Control Stations and Specialised Equipment are single body enclosures and are intended for Ex d and Ex tD applications. Enclosures may be manufactured from cast aluminium alloy, stainless steel or cast iron. Each enclosure consists of a cast body fitted with a bolted cover, which forms a flameproof flange joint. The F7 enclosures are designed for use in Group IIB gas atmospheres and practice A Zone 21 & 22 IP66.

Refer to attached annexe for details.

SPECIFIC CONDITIONS OF USE: NO

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Details of Certificate changes for Issue 4:

Updated the applicant and the additional manufacturer.

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Additional information:
Routine Testing For Manufacturer:

The manufacturer is required to carry out routine overpressure testing of the F7-PS Pressure Switch Enclosure at a minimum pressure of 1.5 time of the maximum allowable pressure, if the maximum allowable pressure is great than 730 kPa (Maximum to 1900 kPa).

The following enclosures are exempt from routine pressure testing, as their representative samples passed an overpressure test at 4X the reference pressure:

1. F7-PS Pressure Switch Enclosure with a maximum allowable pressure is not great than 730 kPa
2. All other enclosures.

The manufacturer is also responsible for carrying out any routine tests where required in the relevant product standard for the equipment.

TestSafe job number: H20879, file number: 2020/016650.

Annex:

Annexe_IECEx TSA 07.0029_04.pdf

IECEx Certificate of Conformity Annexe

Annexe for Certificate No.:	IECEx TSA 07.0029	Issue No.:	4

Equipment (continued):

O-rings seals are incorporated to prevent dust and water ingress. The maximum power dissipation permissible for each enclosure configuration is 59 W (but see Table 1).

The enclosures may be supplied in any of the following configurations:

a) F7D/S-JB Junction Box – having a plain cover (two sizes available: D for deep cover and S for shallow cover) and containing typical electrical equipment as stated in the equipment listing on drawing C3565.
b) F7-CP Control Panel – having a cover fitted with up to seven Govan suitably certified switch or control modules and containing typical electrical equipment as stated in equipment listing C3566.
c) F7-A1 Instrument Enclosure – having a cover fitted with a window, two or three certified operator/push bottoms and containing meters, display components, control switches as stated in the drawing C4934.
d) F7-A2 Instrument Enclosure – having a cover fitted with a window and containing instruments or process control equipment as stated in the drawing C3570.
e) F7-CB Circuit Breaker Enclosure – having a cover fitted with up to two switches and containing circuit breakers as stated in the drawing C3622.
f) F7-PS Pressure Switch Enclosure – fitted with one of two types of pressure sensing device for air, water or oil operation as stated in the drawing C3580.
g) F7-A2D Instrument enclosure - having a cover fitted with a window and spacer containing instruments or process control equipment as stated in the drawing C3573.

The enclosures may be fitted with an extension spacer. The enclosure also may be fitted with Govan modules specified in drawing C0774 Revision 8 Dated 21/06/2005 for Ex d applications only.

Table 1

Ambient Temperature	Maximum power Dissipation (W)	Temperature class	Maximum Surface Temperature for Ex tD
-20 ºC to +40 ºC	59	T6	T 80 ºC
-20 ºC to +55 ºC	39	T6	T 80 ºC
-20 ºC to +60 ºC	31	T6	T 80 ºC

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Londonderry NSW 2753 Australia

IECEx Certificate of Conformity Annexe

Annexe for Certificate No.:	IECEx TSA 07.0029	Issue No.:	4

Drawing list pertaining to Issue 4 of this Certificate:

Document / Drawing No:	Page/s:	Title:	Revision Level:	Date: (yyyy-mm-dd)
C3565	1	Ex d IIB T6 IP66 Ex tD A21 T80 ˚C IP66 – F7 Junction Box & Control Panel – Instrument Enclosure	7	2010-03-11
C3570	1	Ex d IIB T6 IP66 Ex tD A21 T80 ˚C IP66 – Ammeter Arrangement – Instrument Enclosure Cat. No. F7-A2	6	2010-03-11
C3573	1	Ex d IIB T6 IP66 Ex tD A21 T80 ˚C IP66 – Detail of Spacer – Instrument Enclosure Cat. No. F7-A2D	6	2010-03-11
C3580	1	Ex d IIB T6 IP66 Ex tD A21 T80 ˚C IP66 – Pressure Switch Assemblys Cat. No. F7-PS	6	2010-03-11
C3622	1 of 2	Ex d IIB T6 IP66 Ex tD A21 T80 ˚C IP6 6 – Circuit Breaker Enclosure Assembly Cat. No. F7-CB4	6	2010-03-11
C3622	2 of 2	Ex d IIB T6 IP66 Ex tD A21 T85 ˚C IP6 6 – Circuit Breaker Enclosure Assembly Cat. No. F7-CB4	5	2007-06-18
C4934	1 of 2	Ex d IIB T6 IP66 Ex tD A21 T80 ˚C IP66 – F7 Junction Box and Control Panel Instrument Enclosure – C/W Ammeter Window & 3 x Modules	8	2010-03-11
C4934	2 of 2	Ex d IIB T6 IP66 Ex tD A21 T80 ˚C IP66 – F7 Junction Box and Control Panel Instrument Enclosure – C/W Ammeter Window & 2 x Modules	8	2010-03-11
C0774	1	Govan Module Range for Ex d IIB T6 IP66 Certified Enclosures	9	2006/12/15
C3566	6	Equipment Listing for Govan F7 Range of Enclosure – Ex d IIB T6 IP66 Ex tD A21 T85 ˚C IP66	4	2007-05-01
F7GMI	2	General Installation & Maintenance Instructions – F7 Enclosure Range / Ex d & Ex tD	3	2010-03-11
GC0651	2	Compliance Name plate detail for company name change to Pepperl+Fuchs	0	2013-02-19

*Note: An * is included before the title of documents that are new or revised.*

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