



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 KEM 07.0043X**

Page 1 of 5

Certificate history:

Status: **Current**

Issue No: 2

Issue 1 (2013-02-20)

Issue 0 (2007-09-13)

Date of Issue: 2021-07-27

Applicant: **Endress+Hauser SE+Co. KG**
Hauptstraße 1
79689 Maulburg
Germany

Equipment: **Level Limit Switch Soliphant T, types FTM20 and FTM21**

Optional accessory:

Type of Protection: **Ex t**

Marking: **Ex ta/tb IIIC T135 °C Da/Db**

Approved for issue on behalf of the IECEx
Certification Body:

L.G. van Schie

Position:

Certification Manager

Signature:
(for printed version)

Date:

2021-07-27

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 www.iecex.com or use of this QR Code.



Certificate issued by:

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
Netherlands





IECEx Certificate of Conformity

Certificate No.: **IECEx KEM 07.0043X**

Page 2 of 5

Date of issue: 2021-07-27

Issue No: 2

Manufacturer: **Endress+Hauser SE+Co. KG**
Hauptstraße 1
79689 Maulburg
Germany

Additional
manufacturing
locations:

See following pages for more locations

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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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 Report:

[NL/KEM/ExTR07.0050/02](#)

Quality Assessment Report:

[DE/TUN/QAR06.0003/08](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx KEM 07.0043X**

Page 3 of 5

Date of issue: 2021-07-27

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description

Level Limit Switch Soliphant T types FTM20 and FTM21 detects the limit of the level of powder or grained solids and converts it into an electrical signal.

The electronics enclosure made of aluminium containing the electronics insert is placed in an area suitable for EPL Db. The sensor, may be placed in an area suitable for EPL Da and consists of a stainless steel tube with a piezo element.

Electrical data

Electronics insert type FEM22

Supply circuit: 10 to 45 Vdc, max. 0.68 W

Output: PNP transistor, max. 350 mA

Electronics insert type FEM24

Supply circuit: 19 to 55 Vdc or 19 to 253 Vac, 50/60 Hz, max. 1.3 W

Output: 2 change-over contacts, floating max. 6 A

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Ambient temperature derating depending on the process temperature is defined as follows:

- for $T_{amb} = -40\text{ °C}$ to $+40\text{ °C}$, $T_{process} = -40\text{ °C}$ to $+125\text{ °C}$,
- for $T_{amb} = -40\text{ °C}$ to $+70\text{ °C}$, $T_{process} = -40\text{ °C}$ to $+105\text{ °C}$.

- When the equipment is provided with an adhesive name plate, electrostatic charges on the equipment enclosure shall be avoided. For more details see safety instructions.



IECEx Certificate of Conformity

Certificate No.: **IECEx KEM 07.0043X**

Page 4 of 5

Date of issue: 2021-07-27

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. Name change of the manufacturer
2. Assessed per IEC 60079-0 Ed. 7
3. Assessed per IEC 60079-31 Ed. 2
4. Change of the Ex marking
5. Minor constructional changes.



IECEX Certificate of Conformity

Certificate No.: **IECEX KEM 07.0043X**

Page 5 of 5

Date of issue: 2021-07-27

Issue No: 2

Additional manufacturing locations:

**Endress+Hauser (Suzhou) Automation
Instrumentation Co. Ltd.**

China – Singapore Industrial Park (SIP)
Su-Hong-Zhong-Lu, No. 491
Jiangsu Province, 215021 Suzhou
China

**Endress+Hauser (India) Automation
Instrumentation Pvt. Ltd.**

M-192, Waluj MIDC, Aurangabad - 431 136
Maharashtra State
India

**Endress+Hauser (USA) Automation
Instrumentation Inc.**

2340 Endress Place
Greenwood , Indiana 46143
United States of America

Endress+Hauser Yamanashi Co., Ltd.

862-1 Mitsukunugi Sakaigawa-cho, Fuefuki-shi
Yamanashi Pref. 406-0846
Japan

**Endress+Hauser (Brasil) Instrumentação e
Aut.Ltda.**

Estrada Municipal Antonio Sesti
600 Bairro Recreio Costa Verde
Itatiba, SP - 13254-085
Brazil