



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 TUR 19.0036** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-03-11

Applicant: **OleumTech Corporation**
19762 Pauling
Foothill Ranch
California 92610
United States of America

Equipment: **Explosion-proof Magnetic Float Level Switch, Model HLTFD series**

Optional accessory:

Type of Protection: **Equipment protection by flameproof enclosures "db", Equipment dust ignition protection by enclosure "tb"**

Marking: Ex db IIB T3 or T4 or T5 or T6 Gb
Ex tb IIIC T200°C or T135°C or T100°C or T85°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Dipl.-Ing. Yang Wang

Position:

Assigned Certifier

Signature:
(for printed version)

Date:

2020-03-11

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:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany





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Date of issue: 2020-03-11

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Manufacturer: **OleumTech Corporation**
19762 Pauling
Foothill Ranch
California 92610
United States of America

Additional
manufacturing
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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
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:

[DE/TUR/ExTR19.0036/00](#)

Quality Assessment Reports:

[DE/TUR/QAR18.0002/00](#)

[GB/SIR/QAR13.0004/05](#)



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Date of issue: 2020-03-11

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Explosion-proof Magnetic Float Level Switch, HLTFD series

The single unit or multiple reed switch units are housed tightly in stainless steel or engineering plastic stem and the permanent magnet is interline into the middle of the specified float balls. You can mount the float ball to penetrating through the stem, then the liquid buoyancy will deliver the float ball up and down at the specified position by graduating rings. When the reed switch is induction the float internal magnet, then it will actuate the reed switch contact point to create an open or close circuit. We can apply such on-off output signal to reach liquid level controlling and monitoring purpose. The figures below show the float orientations on N.O.(Normal Open) and N.C (Normal close).

The temperature class and the maximum surface temperature depend on the temperature of the medium.The protection degree of enclosure is IP6X.

SPECIFIC CONDITIONS OF USE: NO

Annex:

[DE-IECEx_TUR_19.0036_0_Attachment_2020-03-11.pdf](#)



Attachment to Certificate IECEX TUR 19.0036

Device: Explosion-proof Magnetic Float Level Switch
Types: HLTFD series

Manufacturer: OleumTech Corporation

Address: 19762 Pauling, Foothill Ranch, California 92610,
United States of America

General product information:

Description

The single unit or multiple reed switch units are housed tightly in stainless steel or engineering plastic stem and the permanent magnet is interline into the middle of the specified float balls. You can mount the float ball to penetrating through the stem, then the liquid buoyancy will deliver the float ball up and down at the specified position by graduating rings. When the reed switch is induction the float internal magnet, then it will actuate the reed switch contact point to create an open or close circuit. We can apply such on-off output signal to reach liquid level controlling and monitoring purpose. The figures below show the float orientations on N.O.(Normal Open) and N.C (Normal close).

The temperature class and the maximum surface temperature depend on the temperature of the medium. The protection degree of enclosure is IP6X.

This equipment will be used in explosive gas atmosphere of IIB with equipment protection level Gb and explosive dust atmosphere of IIIC with equipment protection level Db.

Technical Data

Electrical data

Switch capacity:50W/250Vac, 200Vdc, 10W/110Vac, 40W/250Vac

Switching Current Max.: 0.5A

Carry Current Max. :1A(SUS), 2.5A(PP, PVDF)

Environmental data

Ambient temperature: -40°C ~ +70°C

The level of temperature class for explosion sign and its maximum allowed temperature relating to the medium.

Temperature class	T3	T4	T5	T6
Max. Medium temp.	≤ 190°C	≤ 130°C	≤ 95°C	≤ 80°C

Material used in corrosive mediums is different and operating temperature of the different materials also different as shown in the table below:

Material	Medium temp.	Temp. Categories
PP	-10°C~+85°C	T6
PVDF	-10°C~+135°C	T4



Attachment to Certificate
IECEX TUR 19.0036
Revision 0

Routine test at manufacturer:

The routine overpressure test shall be performed at a pressure of 5.44 bar (0.544 MPa). The period of application of the pressure shall be at least 10 s.

Inspection of the ex-relevant gap dimensions is a routine test and must, therefore, be performed for each part as a measuring inspection.

Model designation:

HLTFD **OleumTech® Model Numbering Scheme**

