



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 19.0035** 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: **Side Mounting Float Switch, Model HLSFF series**

Optional accessory:

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

Marking: Ex db IIB T4 or T5 or T6 Gb
Ex tb IIIC 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

Issue No: 0

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/ExTR19.0035/00](#)

Quality Assessment Reports:

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

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



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Certificate No.: **IECEx TUR 19.0035**

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Date of issue: 2020-03-11

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Side Mounting Float Switch, HLSFF series

The Side Mounting Float Level Switch uses the up and down movement of a float for determining liquid levels. A change of liquid level correspondingly travel the float to extreme levels up and down. The reed switch is thus "NC" and "NO" exchanged as well as the permanent magnet on pivot will have mutual repulsion to the other one inside the housing for like poles, which the micro switch is button pushed by magnet to states "NC" and "NO" exchanging likewise.

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_19.0035_0_Attachment_2020-03-11.pdf](#)



Attachment to Certificate
IECEX TUR 19.0035
Revision 0

Attachment to Certificate IECEX TUR 19.0035

Device: Side Mounting Float Switch
Type(s):HLSFF series

Manufacturer: OleumTech Corporation

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

General product information:

Description

The Side Mounting Float Level Switch uses the up and down movement of a float for determining liquid levels. A change of liquid level correspondingly travel the float to extreme levels up and down. The reed switch is thus “NC” and “NO” exchanged as well as the permanent magnet on pivot will have mutual repulsion to the other one inside the housing for like poles, which the micro switch is button pushed by magnet to states “NC” and “NO” exchanging likewise.

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

Contact capacity: 3A / 250 VAC, SPDT

Environmental data

Ambient temperature: -40°C ~ +70°C

IP Degree: IP6X

Routine test at manufacturer:

The routine overpressure test shall be performed at a pressure of 7.18 bar (0.718 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:

HLSFF -

Type _____

- 70 : Explosion Proof Thread Type
- 71 : Explosion Proof Flange Type
- 73 : Explosion Proof Square Flange Type
- 74 : Explosion Proof Double Angle Type
- 75 : Explosion Proof Vertical Mounting Type

Float Spec _____

- B : Ø 75 x 120 (Pressure 10kg/cm² S.G.0.25)
- C : Ø 41 x 150 (Pressure 15kg/cm² S.G.0.65)
- D : Ø 50 x 150 (Pressure 30kg/cm² S.G.0.55)
- G : Ø 41 x 125 (Pressure 15kg/cm² S.G.0.7)
- H : Ø 41 x 100 (Pressure 15kg/cm² S.G.0.8)

Connection _____

<ul style="list-style-type: none"> E : 1-1/2" (40A) F : 2" (50A) G : 2-1/2" (65A) H : 3" (80A) I : 4" (100A) J : 5" (125A) K : 6" (150A) L : 92x92 S : Others 	<ul style="list-style-type: none"> M : 5kg/cm² N : 10kg/cm² O : 150Lbs P : 300Lbs Q : PT R : PF(G) T : BSP U : NPT 	<ul style="list-style-type: none"> W : PN10 (10 Bar) X : PN16 (16 Bar) Y : PN25 (25 Bar) Z : PN40 (40 BAR)
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Length (U/M = mm) _____

Test Accessory _____

Material _____

0 : SUS304	6 : SUS316	9 : US316L
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