



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 FMG 12.0015X** Page 1 of 5 [Certificate history:](#)
Status: **Current** Issue No: 2 [Issue 1 \(2013-04-22\)](#)
[Issue 0 \(2012-05-30\)](#)
Date of Issue: 2019-10-10
Applicant: **Endress+Hauser SE+Co. KG**
Hauptstrasse 1, 79689 Maulburg
Germany
Equipment: **FTL825**
Optional accessory:
Type of Protection: **i,**
Marking: [Ex ia Ga] IIC
[Ex ia Da] IIIC

Approved for issue on behalf of the IECEx
Certification Body:

J. E Marquedant

Position:

VP, Manager - Electrical Systems

Signature:
(for printed version)

Date:

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:

FM Approvals LLC
1151 Boston-Providence Turnpike
Norwood, MA 02062
United States of America





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

Additional manufacturing locations:

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
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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 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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:

[US/FMG/ExTR12.0012/00](#)

[US/FMG/ExTR12.0012/01](#)

[US/FMG/ExTR12.0012/02](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

FTL825 See attached.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The device is an associated apparatus: Only use the device outside explosion hazardous areas.

There must be a distance (thread measure) of at least 50 mm between intrinsically safe and non-intrinsically safe terminals

To achieve an ingress protection of at least IP55 to EN 60529: Protect the device from dust and humidity, e.g. in control rooms, or located in a suitable protective housing.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Update IEC60079-0 to latest edition (7th:2017)

Removal of IEC60079-26 from assessment as the equipment utilizes a single, standardized protection method



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Additional information:
IECEX Listing

Annex:

[Annex to IECEx_FMG_12.0015X.pdf](#)

FTL825-abcdefg. Liquiphant FailSafe

- a = Approvals: (I2 or 8B)
- b = Housing: (3 or 9(different color))
- c = Power Supply: (A or E)
- d = Switch output: (4)
- e = Addition Approvals: (LC, LE, LF and LV, LG and LH)
- f = Accessory Enclosed: (PA)
- g = Tagging: (Z1)

Intrinsically Safe Output circuit (terminals 82 and 83 or 91 and 92):
 $U_o < 22V_{dc}$; $I_o < 166mA$; $P_o < 970mW$; $C_o < 0.165\mu F$, $L_o < 2.8mH$
Refer to Control Drawing XA00646F for additional C_o & L_o values.