



# 1 TYPE EXAMINATION CERTIFICATE

2 Equipment or Protective systems intended for use in Potentially  
Explosive Atmospheres - Directive 2014/34/EU

3 Type Examination Certificate No: FM18ATEX0056X

4 Equipment or protective system: 2600T Series JDF300 Field Indicator  
(Type Reference and Name)

5 Name of Applicant: ABB SpA

6 Address of Applicant: Via L Vaccani 4  
Tremezzina Ossuccio Como 22016  
Italy

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8 FM Approvals Europe Ltd. certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number:

PR450563 dated 29<sup>th</sup> May 2019

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-31:2014 and  
EN 60529:1991+A1:2000+A2:2013

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

11 This Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include:



II 3 G Ex ic IIC T6...T4 Gc

II 3 D Ex tc IIIC T85°C Dc

**Damien Mc Ardle**  
Certification Manager, FM Approvals Europe Ltd.

Issue date: 18<sup>th</sup> June 2019

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

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# SCHEDULE

to Type Examination Certificate No. FM18ATEX0056X

## 13 Description of Equipment or Protective System:

The Series 2600T model JDF300 Field Indicators are designed for remote indication in a Fieldbus system. The Multivariable Field Indicator Type JDF300 is an accessory device of the 2600T Series Transmitters and communicates with any host interface supporting Foundation Fieldbus protocols.

The JDF300 enclosure is the Type 2 ABB enclosure made of aluminium or stainless steel. The enclosure has an Ingress Protection rating of IP66/67.

### Energy Limitation Parameters/Electrical Ratings

FF-816       $U_i = 32\text{Vdc}$ ,  $I_i = 250\text{mA}$ ,  $P_i = 1.2\text{W}$ ,  $C_i \leq 5\text{nF}$ ,  $L_i \leq 20\mu\text{H}$

FISCO       $U_i = 17.5\text{Vdc}$ ,  $I_i = 380\text{mA}$ ,  $P_i = 5.32\text{W}$ ,  $C_i \leq 5\text{nF}$ ,  $L_i \leq 10\mu\text{H}$

T-Class: T4 @  $-50^\circ\text{C} < T_{\text{amb}} < +85^\circ\text{C}$  T5 @  $-50^\circ\text{C} < T_{\text{amb}} < +40^\circ\text{C}$  T6 @  $-50^\circ\text{C} < T_{\text{amb}} < +40^\circ\text{C}$   
T85°C @  $-50^\circ\text{C} < T_{\text{amb}} < +75^\circ\text{C}$

### Series 2600T model JDF300a3L1bS2c

a = Housing; A, B, S or T

b = Approvals: E3, EW or EU

c = Other options; Not relevant for Ex

## 14 Specific Conditions of Use:

1. When the manufacturer of the equipment has not identified the type of protection on the label, the user shall, on installation, mark the label with the type of protection used.

## 15 Essential Health and Safety Requirements:

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

## 16 Test and Assessment Procedure and Conditions:

This Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Europe Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Europe Ltd's ATEX Certification Scheme.

## 17 Schedule Drawings

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by FM Approvals Europe Ltd.

## 18 Certificate History

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# **SCHEDULE**

to Type Examination Certificate No. FM18ATEX0056X

Details of the supplements to this certificate are described below:

Date	Description
18 <sup>th</sup> June 2019	Original Issue.

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# **Blueprint Report**

**ABB SpA (1000002443)**

**Class No 3610**

**Original Project I.D. 450563**

**Certificate I.D. FM18ATEX0056X**

<u>Drawing No.</u>	<u>Revision Level</u>	<u>Drawing Title</u>	<u>Last Report</u>
3KXP000073U0109	-	2600T Series JDF300 Safety Plates	PR450563
3KXP000074U0109	18.05.2018	2600T Series JDF300 Multivariable Field Indicator - Control Drawing	PR450563
DS_JDF300-EN	A	2600T Series Data Sheet	PR450563
JDF 300 OI	A	2600T Series Operating Instructions	PR450563
PN3030-00	February 07	2600T Series Sensor Housing 264 IB - Machined	PR450563