

Translation

(1) **EU-Type Examination Certificate**

**TÜV NORD**

- (2) Equipment and protective systems  
intended for use in potentially  
explosive atmospheres, **Directive 2014/34/EU**



(3) **Certificate Number** TÜV 01 ATEX 1709 **issue:** 00

(4) for the product: Float switch FTS 20 (NAMUR)\*\*\*

(5) of the manufacturer: Endress+Hauser SE+Co. KG

(6) Address: Hauptstraße 1, 79689 Maulburg, Germany

Order number: 8000488433

Date of issue: 2018-09-10

- (7) The design of this product and any acceptable variation thereto are specified in the schedule to this EU-Type Examination Certificate and the documents therein referred to.

- (8) The TÜV NORD CERT GmbH, Notified Body No. 0044, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential ATEX Assessment Report No. 18 203 229306.

- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2012+A11:2013 EN 60079-11:2012**

except in respect of those requirements listed at item 18 of the schedule.

- (10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions for Use specified in the schedule to this certificate.

- (11) This EU-Type Examination Certificate relates only to the design, and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

- (12) The marking of the product shall include the following:

**II 2 G Ex ia IIB T5 Gb**

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body

Christian Roder

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This certificate may only be reproduced without any change, schedule included.  
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## (13) SCHEDULE

(14) EU-Type Examination Certificate No. TÜV 01 ATEX 1709 issue 00

(15) Description of product

The float switch type FTS 20 (NAMUR)\*\*\* is intended for the registration of liquid levels. It may be used within the explosion-hazardous area.

In future, the float switch type FTS 20 (NAMUR)\*\*\* may be manufactured according to the test documents listed in the test report.

### Technical data

Signal- and supply circuit  
(connection cable) in type of protection "Intrinsic Safety" Ex ia IIB  
only for the connection to certified intrinsically safe circuits

The maximum values for voltage, current and power in dependence of the ambient temperature and temperature class have to be taken from the table:

Temperature class	Ambient temperature	$U_i$	$I_i$	$P_i$
T4	-20 °C to +70 °C	16 V	72 mA	242 mW
T5	-20 °C to +40 °C	16 V	72 mA	242 mW
T5	-20 °C to +55 °C	16 V	52 mA	208 mW
T5	-20 °C to +70 °C	16 V	52 mA	180 mW

effective internal inductance  $L_i = 1 \text{ mH}$   
effective internal capacitance  $C_i = 153 \text{ nF}$

(16) Drawings and documents are listed in the ATEX Assessment Report No. 18 203 229306.

(17) Specific Conditions for Use

none

(18) Essential Health and Safety Requirements

no additional ones

- End of Certificate -