

# CERTIFICATE

## (1) EU-Type Examination

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

(3) EU-Type Examination Certificate Number: **KEMA 04ATEX2254 X** Issue Number: **3**

(4) Product: **Level Limit Switch Soliphant T, Types FTM20 and FTM21**

(5) Manufacturer: **Endress+Hauser SE+Co. KG**

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

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 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 confidential test report number NL/KEM/ExTR07.0050/02.

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

**EN IEC 60079-0 : 2018**

**EN 60079-31 : 2014**

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 of 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 product. These are not covered by this certificate.

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



**II 1/2 D Ex ta/tb IIIC T135 °C Da/Db**

Date of certification: 27 July 2021

DEKRA Certification B.V.

L.G. van Schie  
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 04ATEX2254 X**

Issue No. 3

(15) **Description**

Level Limit Switch Soliphant T types FTM20 and FTM21 detects the limit of the level of powder or grained solids and converts it into an electrical signal.

The electronics enclosure made of aluminium containing the electronics insert is placed in an area suitable for EPL Db. The sensor, may be placed in an area suitable for EPL Da and consists of a stainless steel tube with a piezo element.

**Electrical data**

Electronics insert type FEM22

Supply circuit: 10 to 45 Vdc, max. 0,68 W

Output: PNP transistor, max. 350 mA

Electronics insert type FEM24

Supply circuit: 19 to 55 Vdc or

19 to 253 Vac, 50/60 Hz, max. 1,3 W

Output: 2 change-over contacts, floating  
max. 6 A

**Installation instructions**

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/KEM/ExTR07.0050/02.

(17) **Specific conditions of use**

- Ambient temperature derating depending on the process temperature is defined as follows:

- for  $T_{amb} = -40\text{ °C}$  to  $+40\text{ °C}$ ,  $T_{process} = -40\text{ °C}$  to  $+125\text{ °C}$ ,
- for  $T_{amb} = -40\text{ °C}$  to  $+70\text{ °C}$ ,  $T_{process} = -40\text{ °C}$  to  $+105\text{ °C}$ .

- When the equipment is provided with an adhesive name plate, electrostatic charges on the equipment enclosure shall be avoided. For more details see safety instructions.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/KEM/ExTR07.0050/02.

(20) **Certificate history**

Issue 1 - 203803300	Initial certificate
Issue 2 - 215817100	Assessment according to a newer versions of the standards. Changes of enclosure type
Issue 3 - 225648500	Evaluation to EN IEC 60079-0 : 2018 and IEC 60079-31 : 2014, change of the Ex marking and minor constructional changes