



# 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: FM25ATEX0038X

4. Equipment or protective system:  
(Type Reference and Name) SLL210 Level Sensor

5. Name of Applicant: Mettler-Toledo GmbH

6. Address of Applicant Im Langacher 44, Griefensee, 8606, Switzerland

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 component 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:

PR471322 dated 15<sup>th</sup> January 2026

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 IEC 60079-0:2018, EN 60079-7:2015+A1:2018, EN 60079-31:2014,  
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 ec IIC T6 Gc  
II 3 D Ex tc IIIC T85°C Dc  
-20°C ≤ Ta ≤ 60°C

13. Description of Equipment or Protective System:

Certificate issued by:

FM Approvals

16 January 2026

Certification Manager, FM Approvals Europe Ltd.

Date

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

## **SCHEDULE**

to Type Examination Certificate No. FM25ATEX0038X

The SLL210 Level Sensor is designed to detect the level of material in a tank vessel. The electronics are built into the hermetically sealed enclosure consisting of the SLL210 Cover, Cover board and two external threaded socket connections. The two external threaded sockets outlets connections shall only be used with the Mettler-Toledo cable (model 31025746) or the Mettler-Toledo terminator (model 30968163), both of which must be connected to the SLL210 Level Sensor through the Mettler-Toledo protective adapter (model 30968161). All metal-to-metal joints are welded. The connectors sockets have a glue to metal seal. The mainboard is fastened to the counterforce by grounded screws. The connector sockets are welded on the counterforce and are sealed with adhesive, The cover, cover board and connector are welded as a complete enclosure. A gasket is used between the cover and the base plate. The SLL210 Level Sensor is rated 24VDC, 0.55W. The SLL210 Level Sensor is available on two housing sizes 140mm X 140mm X 62mm and 210mm X 210mm X 74mm. The SLL210 Level Sensor monitors storage levels via automation system. The sensor is never in contact with the tank contents. The SLL210 Level Sensor is intended to be installed below the tank. The SLL210 Level Sensor is available in with the following models that provide the following communication protocol over the RS485 connection:

- SLL210A: 4-20mA
- SLL210-AH: 4-20mA HART
- SLL210-IOL: IO-Link

### **SLL210a Level Sensor**

a (communication protocol) = A, AH or IOL

#### **14. Specific Conditions of Use:**

1. For Level of Protection "ec" the equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
2. For Level of Protection "ec" transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminals to the equipment.
3. For Level of Protection "ec" to avoid electrostatic discharge the labels shall only be cleaned with a damp cloth.
4. For Level of Protection "tc" electrostatic charge of the labels due to propagation brush discharge shall be avoided.
5. The two external threaded socket outlet connections shall only be used with the Mettler-Toledo cable (model 31025746) or the Mettler-Toledo terminator (model 30968163), both of which must be connected to the apparatus through the Mettler-Toledo protective adapter (model 30968161).

#### **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.

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

**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**

Details of the supplements to this certificate are described below:

| Date            | Description     |
|-----------------|-----------------|
| 16 January 2026 | Original Issue. |

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

# Blueprint Report

**Mettler-Toledo GmbH (Greifensee) 1000007391**

**Class No. 3611**

**Original Project I.D. 471322**

**Certificate I.D. FM25ATEX0038X**

| <u>Drawing No.</u> | <u>Revision Level</u> | <u>Drawing Title</u>                     | <u>Last Report</u> |
|--------------------|-----------------------|------------------------------------------|--------------------|
| 30731167           | F                     | PCB Level Detection Mainboard            | PR471322           |
| 30823989           | E                     | PCB Level Detection IOLINK               | PR471322           |
| 30968159           | A                     | SLL210 circuit diagram                   | PR471322           |
| 30968161           | A                     | Cable protect adaptor                    | PR471322           |
| 30968162           | A                     | Cable protect cover                      | PR471322           |
| 30968172           | A                     | O-Ring for Approval                      | PR471322           |
| 31025490           | A                     | Connector MB12MSARF08ST                  | PR471322           |
| 31025491           | A                     | Connector MB12FSARF08ST                  | PR471322           |
| 31045633           | C                     | SLL210 Certification Label Documentation | PR471322           |
| PCBA000648         | G                     | PCBA Level Detection Mainboard           | PR471322           |
| PCBA000656         | F                     | PCBA Level Detection IOLINK              | PR471322           |
| PCBA001028         | E                     | PCBA Level Detection Analog              | PR471322           |
| SCH_PCBA001028     | E                     | Schematic PCBA Level Detection Analog    | PR471322           |
| SCH-PCBA000648     | G                     | Schematic PCBA Level Detection Mainboard | PR471322           |
| SCH-PCBA000656     | F                     | Schematic PCBA Level Detection IOLINK    | PR471322           |