



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx SIR 19.0026X

Issue No: 0

Certificate history:

[Issue No. 0 \(2019-03-22\)](#)

Status: **Current**

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Date of Issue: **2019-03-22**

Applicant: **Automation Products Group**
1025 West 1700 North
Logan
Utah 84321
United States of America

Equipment: **Magnetostrictive Level Sensor, MPI-ABC-DE-FGHI-J-K-LMNO-PQ**

Optional accessory:

Type of Protection: **Intrinsically Safe**

Marking:
Ex ia IIB T4 Ga
Ta = -40°C to +85°C

*Approved for issue on behalf of the IECEx
Certification Body:*

N Jones

Position:

Technical Manager

*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 the [Official IECEx Website](#).

Certificate issued by:

SIRA Certification Service
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden, Deeside, CH5 3US
United Kingdom

sira
CERTIFICATION





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Manufacturer: **Automation Products Group**
1025 West 1700 North
Logan
Utah 84321
United States of America

Additional Manufacturing location(s):

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 apparatus 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 electrical 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 Report:

[GB/SIR/ExTR19.0088/00](#)

Quality Assessment Report:

[NL/DEK/QAR13.0027/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The MPI Series Magnetostrictive Level sensor is used for level readings of liquid level measurement applications. The MPI transmits an electrical pulse down a ferromagnetic wire which, when encountering a magnetic field, causes a torsion on the wire, resulting in part of the transmitted pulse being reflected back up the wire. This reflected pulse is then picked up by a coil input into the circuit. The on board processor calculates the distance based on the time of flight of the return echo. An on board temperature sensor, as well as temperature sensors in the stem, allow for temperature compensation. This product is comprised of an aluminium enclosure that houses a PCA and internal wiring, and a stem, which houses the ferromagnetic wire and the digital temperature sensors.

Refer to the Annexe for Entity parameters and coding.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.
2. The enclosure is manufactured from Aluminium. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during installation.

Annex:

[IECEX SIR 19.0026X Issue 0 Annexe.pdf](#)