



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 BVS 13.0063X Issue No: 0 Certificate history:
Issue No. 0 (2014-06-30)

Status: **Current** Page 1 of 5

Date of Issue: **2014-06-30**

Applicant: **MTS Sensor Technologie GmbH & Co KG**
Auf dem Schüffel 9
58513 Lüdenscheid
Germany

Electrical Apparatus: **Position sensor type GTE**
Optional accessory:

Type of Protection: **Equipment protection by type of protection "n"**

Marking: Ex nA IIC T4 Gc

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

Dr. F. Eickhoff

Position:

Deputy Head of Certification Body

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](http://www.iecex.com).

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany





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Manufacturer: **MTS Sensor Technologie GmbH & Co KG**
Auf dem Schüffel 9
58513 Lüdenscheid
Germany

Additional Manufacturing
location(s):

MTS Systems Corporation Sensors Division
3001 Sheldon Drive
Cary, NV 27513
United States of America

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 electrical 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0
IEC 60079-15 : 2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

*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:

[DE/BVS/ExTR13.0123/00](#)

Quality Assessment Report:

[GB/FME/QAR14.0005/00](#) [DE/PTB/QAR11.0005/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Model/type reference:

Position sensor type GTEabcde-EX

- a - Stroke length (4 digits)
in mm if b = M
in inches if b = U
- b - Unit (1 digit)
M = metric
U = US commercial
- c - Connection type (3 digits)
Bxx = integral cable, pigtail termination
xx = cable length in m or feet (depending on b = M or U)
- d - Power supply (1 digit)
1 - DC 24 V +20%/-15% (max. T_{amb} = 75 °C)
3 - DC 13.0 to 17.0 V (max. T_{amb} = 85 °C)
4 - DC 24 V +20%/-15% (max. T_{amb} = 85 °C)
5 - DC 13.0 to 28.8 V (max. T_{amb} = 85 °C)
- e - Outputs (2 digits)
V0 = 0... 10 V
V1 = 10... 0 V
V2 = -10... +10 V
V3 = +10... -10 V
A0 = 4... 20 mA
A1 = 20... 4 mA
A2 = 0... 20 mA
A3 = 20... 0 mA

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CONDITIONS OF CERTIFICATION: YES as shown below:

The clamping test of the cable entry was carried out with a reduced value,
so it has to be ensured that pulling and twisting of the cable is not transmitted to the terminations.



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EQUIPMENT (continued):

Rating

Type GTEabc1e-EX

Supply DC 24 V +20%/-15%

Max. ambient temperature range -20 °C....+75 °C

Type GTEabc3e-EX

Supply DC 13.0...17.0 V

Max. ambient temperature range -20 °C....+85 °C

Type GTEabc4e-EX

Supply DC 24 V +20%/-15%

Max. ambient temperature range -20 °C....+85 °C

Type GTEabc5e-EX

Supply DC 13.0...28.8 V

Max. ambient temperature range -20 °C....+85 °C