



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx IBE 21.0030X**

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[Certificate history:](#)

Status: **Current**

Issue No: 0

Date of Issue: 2022-02-09

Applicant: **GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG**  
Fritz-Müller-Straße 6-8  
74653 Ingelfingen  
Germany

Equipment: **Electrical position indicator GEMÜ 1231**

Optional accessory:

Type of Protection: **intrinsic safety "ib"**

Marking: Ex ib IIC T6 Gb

Ex ib IIIC T80 °C Db

-20 °C ≤ T<sub>amb</sub> ≤ +60 °C

Approved for issue on behalf of the IECEx  
Certification Body:

**Alexander Henker**

Position:

**Deputy Head of department Certification Body**

Signature:  
(for printed version)

Date:  
(for printed version)

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.
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Certificate issued by:

**IBExU Institut für Sicherheitstechnik GmbH**  
Fuchsmühlenweg 7  
09599 Freiberg  
Germany

**IBExU**



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Manufacturer: **GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG**  
Fritz-Müller-Straße 6-8  
74653 Ingelfingen  
**Germany**

Manufacturing  
locations:

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 equipment 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 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/IBE/ExTR21.0038/00](#)

Quality Assessment Report:

[DE/IBE/QAR19.0001/02](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The electrical position indicator is used for stroke detection on stationary shift rods and valve spindles. Up to two intrinsically safe proximity sensors are mounted in a dust-tight plastic housing, which are actuated by the axial spindle. The connection terminals are located in the housing, the cable is inserted via cable gland. Alternatively, the device can be equipped with an M12 device socket.

## Technical data:

Ambient temperature range	-20 °C...+60 °C
maximum input voltage $U_i$ :	16 V
maximum input current $I_i$ :	25 mA
maximum input power $P_i$ :	64 mW

## SPECIFIC CONDITIONS OF USE: YES as shown below:

- Due to danger of electrostatic discharge, the electrical position indicator has to be installed in areas without intensive electrostatic charging processes. Cleaning is permitted only with a damp cloth.
- The connectors may be protected against the ingress of dust if not connected.
- When using the M12 connector, the differential voltage between the separate intrinsically safe circuits may not exceed. The requirements for cables according to IEC 60079-14, Clause 16.2.2 must be taken into account. Cables and connectors must be protected against damage.