



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

Certificate No.: **IECEx PTB 04.0016** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2014-09-12\)](#)
[Issue 0 \(2004-10-05\)](#)
Date of Issue: 2025-05-20
Applicant: **Bürkert Werke GmbH**
Christian-Bürkert-Straße 13-17
74653 Ingelfingen
Germany
Equipment: **Positioner type 8635 SideControl S**
Optional accessory:
Type of Protection: **General Requirements & Intrinsic Safety**
Marking: **Ex ia IIC T6/T5/T4 Gb**

Approved for issue on behalf of the IECEx
Certification Body:

Dr.-Ing. Martin Thedens

Position:

**Head of Department "Explosion Protection in Sensor Technology
and Instrumentation"**

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.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany





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Manufacturer: **Bürkert Werke GmbH**
Christian-Bürkert-Straße 13-17
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 60079-0:2011](#) Explosive atmospheres - Part 0: General requirements
Edition:6.0

[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/PTB/ExTR14.0048/00](#)

Quality Assessment Report:

[HR/FIDI/QAR25.0003/00](#)

IECEX ATR:

File reference:



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Positioner Type 8635 Side Control S is intended for mounting onto several drives. The Positioner is installed in the hazardous area. For detailed information see the Annexes.

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
new QAR

Annex:

[COCA040016-02.pdf](#)



Schedule

The positioner, type 8635 SideControl S is intended for mounting onto several drives.

The positioner is installed in the hazardous area.

For relationship between the temperature class and the permissible range of the ambient temperature reference is made to the following table.

temperature class	permissible range of the ambient temperature
T6	-25 °C ... 60 °C
T5	-25 °C ... 65 °C
T4	-25 °C ... 65 °C

Electrical Data

Current input type of protection Intrinsic Safety Ex ia IIC
(terminals 11, 12) only for connection to a certified intrinsically safe circuit

Maximum values:

- $U_i = 30 \text{ V}$
- $I_i = 100 \text{ mA}$
- $P_i = 1 \text{ W}$
- $C_i = 14.3 \text{ nF}$
- L_i negligibly low

Process control input type of protection Intrinsic Safety Ex ia IIC
(terminals 13, 14) only for connection to a certified intrinsically safe circuit

Maximum values:

- $U_i = 30 \text{ V}$
- $I_i = 100 \text{ mA}$
- $P_i = 1 \text{ W}$
- $C_i = 11 \text{ nF}$
- L_i negligibly low

Binary input type of protection Intrinsic Safety Ex ia IIC
(terminals 81, 82) only for connection to a mechanical switch

Maximum values:

- $U_o = 8.8 \text{ V}$
- $I_o = 0.2 \text{ mA}$



$C_o = 5.5 \mu\text{F}$
 $L_o = 1000 \text{ mH}$

Options

Actual-value output..... type of protection Intrinsic Safety Ex ia IIC
(terminals 31, 32) only for connection to a certified intrinsically safe circuit

Maximum values:

$U_i = 30 \text{ V}$
 $I_i = 100 \text{ mA}$
 $P_i = 1 \text{ W}$

C_i negligibly low
 L_i negligibly low

Initiators..... type of protection Intrinsic Safety Ex ia IIC
(terminals 41, 42 and 51, 52) only for connection to a certified intrinsically safe circuit

Maximum values:

$U_i = 15.5 \text{ V}$
 $I_i = 52 \text{ mA}$
 $P_i = 150 \text{ mW}$

$C_i = 200 \text{ nF}$
 $L_i = 0.2 \text{ mH}$

Binary outputs type of protection Intrinsic Safety Ex ia IIC
(terminals 83, 84 and 85, 86) only for connection to a certified intrinsically safe circuit

Maximum values:

$U_i = 30 \text{ V}$
 $I_i = 100 \text{ mA}$
 $P_i = 1 \text{ W}$

C_i negligibly low
 L_i negligibly low

Interface RS 232 for connection to a programming unit
(terminals SV4) outside of the hazardous area

$U_m = 253 \text{ V (rms-value)}$

The connections for piezo valves, position measuring system, indicating- and pressure sensor-board are internal intrinsically safe circuits.