



# 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 BVS 15.0055X** Page 1 of 6 Certificate history:  
Status: **Current** Issue No: 1 Issue 0 (2015-06-15)  
Date of Issue: 2021-08-19  
Applicant: **Softing Industrial Automation GmbH**  
Richard-Reitzner-Allee 6  
85540 Haar  
Germany  
Equipment: **Linking device type FG-200 HSE/FF**  
Optional accessory:  
Type of Protection: **Intrinsic Safety "I", Increased Safety "e"**  
Marking: **Ex ec IIC T4 Gc** or  
**Ex ec [ic] IIC T4 Gc**

Approved for issue on behalf of the IECEx  
Certification Body:

**Dr Michael Wittler**

Position:

**Deputy Head of Certification Body**

Signature:  
(for printed version)

  
19.08.2021

Date:

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Certificate issued by:

**DEKRA Testing and Certification GmbH**  
Certification Body  
Dinnendahlstrasse 9  
44809 Bochum  
Germany

 **DEKRA**  
On the safe side.



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Manufacturer: **Softing Industrial Automation GmbH**  
Richard-Reitzner-Allee 6  
85540 Haar  
Germany

Additional  
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

**IEC 60079-7:2017** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

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/BVS/ExTR15.0049/01](#)

Quality Assessment Report:

[DE/PTB/QAR11.0002/05](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

### Subject and Type

Linking Device type FG-200 HSE/FF

### Description

The linking device acts as a gateway between Ethernet-based host systems with protocol HSE and the process bus FF. It is suited for network configuration, device parametrization and the recording of production data. The data circuits are galvanically isolated from each other.

The Fieldbus circuits may operate as intrinsically safe circuits (level of protection Ex ic) or as non-intrinsically safe circuits; details see manual.

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

- 1 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.
- 2 The equipment has to be installed in a protective enclosure which meets the requirements for resistance to impact and IP54 defined in EN 60079-0 clause 26.4.
- 3 Before the first use of the device one marking field (Ex ec IIC T4 Gc or Ex ec [ic] IIC T4 Gc) has to be selected and marked; once the device has operated at non-intrinsically safe fieldbus circuits it may not operate at intrinsically safe fieldbus circuits without reconsideration by the manufacturer.
- 4 The ambient temperature range depends on various installation conditions of the devices; see manufacturer's instructions.
- 5 The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.



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## Equipment (continued):

### Parameters

Power supply circuit (terminals 1 - 3 or Rail Power Supply L+ and GND)

Nominal voltage		DC	18...32	V
Power consumption			<5.6	W
Max. voltage	$U_m$	DC	40	V

Redundancy Link circuit (terminals 4,5,6)

Nominal voltage		DC	up to 32	V
Max. voltage	$U_m$	DC	40	V

Ethernet Ports (connectors ETH1, ETH2)

Nominal voltage		DC	up to 32	V
Max. voltage	$U_m$	DC	40	V

Fieldbus circuits (terminals 7,8,9 and 10,11,12 and 13,14,15 and 16,17,18)

(if operated as non-intrinsically safe circuits)

Nominal voltage		DC	24/32	V
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(if operated as intrinsically safe circuits, each channel)

Voltage	$U_i$	DC	32	V
Current	$I_i$		570	mA

Max. sum of voltages of power supply and fieldbus circuits 60 V

Ambient temperature range, dependent on kind of mounting,

$-40\text{ °C} \leq T_a \leq$  see Manufacturer's instructions

Horizontal installation position

Minimum distance	Maximum number of fieldbus channels used per device	Maximum voltage of fieldbus circuits	Maximum permissible ambient temperature $T_a$
0 mm	4	32 VDC	55 °C
0 mm	2	24 VDC	60 °C
17.5 mm	4	32 VDC	65 °C
17.5 mm	2	24 VDC	70 °C



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## Vertical installation position

Minimum distance between devices	Maximum number of fieldbus channels used per device	Maximum voltage of fieldbus circuits	Maximum permissible ambient temperature $T_a$
0 mm	4	32 VDC	40 °C
0 mm	2	24 VDC	50 °C
17.5 mm	4	32 VDC	55 °C
17.5 mm	2	24 VDC	60 °C



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

- Updating of the standards and the resulting change in the marking