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 EPS 17.0085X**

Certificate history:
Issue 0 (2018-09-18)

Status: **Current**

Issue No: 1

Date of Issue: 2020-07-10

Applicant: **Hans Turck GmbH**
Witzlebenstraße 7
45472 Mülheim an der Ruhr
Germany

Equipment: **Segment coupler SC11-3G & SC11Ex-3G**

Optional accessory:

Type of Protection: **e, i**

Marking: SC11-3G

Ex ec ic IIC T4 Gc

SC11Ex-3G

Ex ec ic [ib Gb] IIC T4 Gc
[Ex ib Db] IIIC

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

Position: **Certification 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 www.iecex.com or use of this QR Code.

Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany

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Certificate No.: **IECEx EPS 17.0085X**

Date of issue: 2020-07-10 Issue No: 1

Manufacturer: **Hans Turck GmbH**
Witzlebenstraße 7
45472 Mülheim an der Ruhr
Germany

Additional manufacturing locations: **Werner Turck GmbH & Co. KG**
Goethestraße 7
D-58553 Halver
Germany

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/EPS/ExTR17.0084/02

Quality Assessment Reports:

DE/PTB/QAR06.0012/04 DE/PTB/QAR06.0013/05

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

SC11-3G

The device is intended exclusively for use in the industrial sector. The device operates as a repeater and regenerates the signal amplitude, edge slope and bit width of the data telegram. The device supports PROFIBUS-DP and Modbus RTU protocols. By interconnecting several segment couplers, line, system or slave redundancy can be realized.

Electrical data:

Supply voltage	Unom	=	24 VDC
Power consumption	Pmax	=	2.4 W
Profibus-DP	Unom	=	5.0 V
Link	Unom	=	3.3 V

SC11Ex-3G

The device is intended exclusively for use in the industrial sector. The SC11Ex-3G segment coupler converts standard RS485 signals to intrinsically safe RS485-IS signals. The device supports PROFIBUS-DP and Modbus RTU protocols. The RS485-IS interface complies with the requirements of the PROFIBUS guideline of the PNO. By interconnecting several segment couplers, line, system or slave redundancy can be realized.

Electrical data:

Supply voltage	Unom	=	24 VDC
	Umax	=	40 V
Power consumption	Pmax	=	4.0 W
Profibus-IS (Ex)	Uo	=	4.2 V
	Ui	=	4.2 V
	Io	=	148 mA
	Po	=	155 mW, linear output characteristic
	Li, Ci		negligible
Profibus-DP (non-Ex)	Unom	=	5.0 V
	Umax	=	40 V
Link (Ex)	Uo	=	4.2 V
	Io	=	5 mA
	Po	=	5 mW, linear output characteristic
	Umax	=	4.2 V
	Li, Ci		negligible

SPECIFIC CONDITIONS OF USE: YES as shown below:
When used in potentially explosive atmospheres, the device shall only be installed in an enclosure that provides a minimum protection of IP54 in accordance to EN 60079-0.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Complement of an additional manufacturing location.