



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 14.0039 issue No.: 0 Certificate history: _____

Status: **Current**

Date of Issue: **2014-05-13** Page 1 of 3

Applicant: **Gönnheimer Elektronik GmbH**
Dr.-Julius-Leber-Str. 2
67433 Neustadt an der Weinstraße
Germany

Electrical Apparatus: **Handheld Scanner type HS154.* with Handheld Scanner Interface type SI154.***
Optional accessory:

Type of Protection: **Equipment protection by intrinsic safety "i", Protection of equipment and transmission systems using optical radiation**

Marking: Ex ib op is IIB T4 Gb for the scanner
[Ex ib Gb] IIC for the interface

Approved for issue on behalf of the IECEx Certification Body: H.-Ch. Simanski

Position: Head of Certification Body

Signature:
(for printed version) 

Date: 13.5.2014

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

 **DEKRA**
DEKRA EXAM GmbH



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Manufacturer: **Gönnheimer Elektronik GmbH**
Dr.-Julius-Leber-Str. 2,
67433 Neustadt an der Weinstraße
Germany

Additional Manufacturing location
(s):

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 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"
IEC 60079-28 : 2006-08 Edition: 1	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

*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/ExTR14.0045/00](#)

Quality Assessment Report:
[DE/TUN/QAR10.0006/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description

The Handheld Scanner is used in hazardous areas for recording of 1D and 2D barcodes.

The scanner will be connected to an interface type SI154.*, which is located outside the hazardous area, via an up to 5 m long cable. The interface is used for power supply and data transmission of the scanner. The electrical components of the interface are fastened on a board which is (for type SI154.2) fastened inside a light metal enclosure.

Parameters

1 Scanner Interface type SI154.*

1.1 Input circuit (conn. KL1.1 to KL1.4)

Nominal voltage	DC	5	V
Max. voltage	U _m AC	50	V

1.2 Intrinsically safe output circuits

Power supply circuit (conn. KL2.1 - KL2.4)

Voltage	U _o DC	7	V
Current	I _o	2.95	A
Power	P _o	2.66	W

Data circuits (conn. KL2.2 - KL2.4 and KL2.3 - KL 2.4)

Values for each circuit

Voltage	U _o DC	4.5	V
Current	I _o	301	mA
Power	P _o	337	mW

1.3 Ambient temperature range -20 °C up to +50 °C

2 Handheld scanner type HS154.*

Optical output power ≤ 35 mW

Ambient temperature range -20 °C up to +50 °C

CONDITIONS OF CERTIFICATION: NO