

Translation

(1) EC-Type Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) No. of EC-Type Examination Certificate: **BVS 14 ATEX E 063**
- (4) Equipment: **Handheld Scanner type HS154.* with Handheld Scanner Interface type SI154.***
- (5) Manufacturer: **Gönzheimer Elektronik GmbH**
- (6) Address: **Dr.-Julius-Leber-Str. 2, 67433 Neustadt an der Weinstraße, Germany**
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.
- (8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in the Test and Assessment Report BVS PP 14.2096 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- EN 60079-0:2012 General requirements**
EN 60079-11:2012 Intrinsic Safety "i"
EN 60079-28:2007 Optical radiation
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.
- (11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:



II 2 G Ex ib op is IIB T4 Gb
II (2) G [Ex ib Gb] IIC

for the Handheld Scanner

for the Handheld Scanner Interface

DEKRA EXAM GmbH
Bochum, dated 2014-05-08

Signed: Simanski

Signed: Dr. Eickhoff

Certification body

Special services unit

- (13) Appendix to
- (14) **EC-Type Examination Certificate
BVS 14 ATEX E 063**
- (15) 15.1 Subject and type

Handheld Scanner type HS154.* with Handheld Scanner Interface type SI154.*
 Instead of the * in the complete denomination letters and numerals will be inserted which characterize for the interface the kind of mounting and for the scanner the length of the connecting cable, but in max. 5 m.

15.2 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.

15.3 Parameters

15.3.1 Scanner Interface type SI154.*

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

Nominal voltage		DC	5	V
Max. voltage	U_m	AC	50	V
		DC	120	V

15.3.1.2 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

15.3.1.3 Ambient temperature range

T_a	-20 °C up to +50 °C
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15.3.2 Handheld scanner type HS154.*

Optical output power ≤ 35 mW

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



(16) Test and Assessment Report
 BVS PP 14.2096 EG as of 2014-05-08

(17) Special conditions for safe use
 None

We confirm the correctness of the translation from the German original.
 In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
 44809 Bochum, 2014-05-08
 BVS-Schu/Ma A20130328

Certification body

Special services unit