



Translation

Type Examination Certificate

(1)

(2)

**- Directive 94/9/EC -
Equipment and protective systems intended for use
in potentially explosive atmospheres**

(3)

BVS 09 ATEX E 094 X

(4)

Equipment: Frequency transmitter type 9146/*0-1*-6*

(5)

Manufacturer: R. STAHL Schaltgeräte GmbH

(6)

Anschrift: 74638 Waldenburg, Germany

(7)

The design and construction of this equipment (or component) and any acceptable variation thereto are specified in the appendix to this type examination certificate.

(8)

The certification body of DEKRA EXAM GmbH certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of Category 3 equipment intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential test and assessment report BVS PP 09.2112 EG.

(9)

The Essential Health and Safety Requirements are assured by compliance with:

IEC 60079-0:2007 General requirements

EN 60079-15:2005 Type of protection 'n'

(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 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 3G Ex nAc nCc II T4

DEKRA EXAM GmbH

Bochum, dated 23. July 2009

Signed:

Simanski

Certification body

Signed:

Dr. Arnold

Special services unit

(13) Appendix to

(14) **Type Examination Certificate**

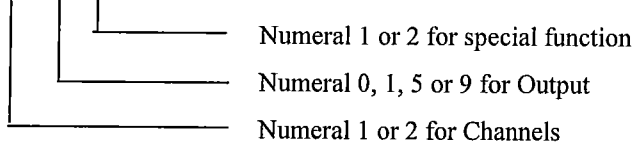
BVS 09 ATEX E 094 X

(15) 15.1 Subject and type

Frequency transmitter type 9146/*0-1*-6*

Instead of the *** in the complete denomination numerals will be inserted which characterize modifications:

Type 9146/*0-1*-6*



15.2 Description

The frequency transmitter, which will be mounted inside an enclosure which is in accordance with EN 60079-15, is used for converting the input signals into output signals.

The electronic components of the frequency transmitter are soldered on an insulating plate mounted inside a plastic housing. The input circuits are galvanically separated from each other as from the output circuits and from the power supply circuit.

15.3 Parameters

15.3.1	Power supply circuit (terminals 7 (L+) - 9 (L-) and pac-bus connector V007/1 (+) - V007/2 (-))			
	Nominal voltage	DC	24	V
	Nominal current		75	mA
15.3.2	Output signals			
15.3.2.1	Type 9146/20-11-61 (output1 terminals 1 and 2, output 2 terminals 5 and 6)			
	Values for each circuit			
	Nominal voltage	DC	15	V
	Nominal current		20	mA
15.3.2.2	Type 9146/10-11-62, output1 terminals 1 and 2			
	Nominal voltage	DC	15	V
	Nominal current		20	mA
	Switching contact 1 terminals 3 and 4, switching contact 2 terminals 5 and 6)			
	Values for each circuit			
	Nominal voltage	AC/DC	30	V
	Nominal current		100	mA

15.3.2.3	Type 9146/20-10-62 Switching contact 1 terminals 1 and 2, switching contact 2 terminals 2 and 3) Switching contact 3 terminals 5 and 6, switching contact 4 terminals 6 and 4) Values for each circuit			
	Nominal voltage	AC/DC	30	V
	Nominal current		100	mA
15.3.2.4	Type 9146/10-19-62, output1 terminals 1 and 2			
	Nominal voltage	DC	30	V
	Nominal current		20	mA
	Switching contact 1 terminals 3 and 4, switching contact 2 terminals 5 and 6) Values for each circuit			
	Nominal voltage	AC/DC	30	V
	Nominal current		100	mA
15.3.2.5	Type 9146/10-15-62, output1 terminals 1 and 2			
	Nominal voltage	DC	5	V
	Nominal current		10	mA
	Switching contact 1 terminals 3 and 4, switching contact 2 terminals 5 and 6) Values for each circuit			
	Nominal voltage	AC/DC	30	V
	Nominal current		100	mA
15.3.2.6	Type 9146/20-15-61 (output1 terminals 1 and 2, output 2 terminals 5 and 6) Values for each circuit			
	Nominal voltage	DC	5	V
	Nominal current		10	mA
15.3.2.7	Fault monitoring circuits Loop 1 terminals 8 – 9, loop 2 pac-bus connector V007/3 – V007/4, floating contact Values for each circuit			
	Nominal voltage	AC/DC	30	V
	Nominal current		100	mA
15.3.2.8	Configuration circuits (RS232), connection V401			
	Nominal voltage		± 15	V
	Nominal current		10	mA
15.3.2.9	Input circuits Input 1 terminals 10 and 11, Input 2 terminals 14 and 15 Values for each circuit			
	Nominal voltage	DC	8,5	V
	Input frequency		0,001 Hz up to 20000 Hz	
15.3.3	Ambient temperature range	Ta	-20 °C up to +70 °C	

(16) Test report
Nr. BVS PP 09.2112 EG, dated 23.07.2009

(17) Special conditions for safe use

The frequency transmitter has to be mounted inside an enclosure which is in accordance with EN 60079-15.

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.

44809 Bochum, 23. July 2009
BVS-Schu/Sz A 20090464

DEKRA EXAM GmbH



Certification body



Special services unit

