

EC-Type Examination Certificate

- [2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC
- [3] EC-Type Examination Certificate Number: PRE 14 ATEX 5555X Issue 1
- [4] Equipment or Protective System: Hazardous Area Loudspeaker 8494
- [5] Applicant – Manufacturer or Authorized representative: R. Stahl Schaltgeräte GmbH
- [6] Address: Am Bahnhof 30, D-74638 Waldenburg
Deutschland
- [7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV Nemko Presafe AS, notified body number 2460 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system 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 confidential reports listed in section 14.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-7: 2007, EN 60079-18: 2009, and EN 60079-31: 2009.
- [10] If the sign “X” is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- [11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protected system. If applicable, further requirements of this Directive apply to the manufacturer and supply of this equipment or protective system.
- [12] The marking of the equipment or protective system shall include the following:



II 2G
II 2D

Ex d e mb IIB+H2/IIC T4 Gb
Ex tb IIIC T105°C Db

-50°C ≤ Ta ≤ +60°C

Bjørn Spongsveen
For DNV Nemko Presafe AS
Information on electronic signature www.presafe.com



Date of issue: 2015-10-30

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[13]

Schedule

[14] EC-TYPE EXAMINATION CERTIFICATE No.: PRE 14 ATEX 5555X Issue 1



Certificate History

Issue	Description	Report no.	Issue date
0	Original issue	D0001599	2015-01-16
1	<ul style="list-style-type: none"> New variants added The EN 60079-0: 2009 is updated to EN 60079-0: 2012 The ambient temp range is extended from $-50^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$ to $-50^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$ 	D0001599-01	2015-10-26

[15] Description of Equipment or Protective System

This Certificate covers a loudspeaker. "14" to "19" in position "e" in the designation indicates design with transformer. For IIC sintered metal of stainless steel, type SIKA-R 200 is used. For IIB +H2 sintered metal of bronze, type SIKA-B 200 is used.

Type Designations / Technical data

Type	Marking	Ambient temperature	Freq. range
8494 / a - b - c - d - e - f	 II 2G Ex d e mb IIB+H2 T4 Gb II 2D Ex tb IIIC T105°C Db	$-50^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$	150 – 20000Hz
8494 / a - b - c - d - e - f	 II 2G Ex d e mb IIC T4 Gb II 2D Ex tb IIIC T105°C Db	$-50^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$	150 – 20000Hz

Explanation of the type description

8494 / a - b - c - d - e - f :

- a : Gas group (B: IIB+H2 or C: IIC)
- b : Flare (S : short, L : long)
- c : Certification (EN: ATEX/IECEX/NEC)
- d : Product specification (ST: standard STAHL, GI: additional customer marking)
- e : Product options (10: 15 Watt 8 ohm; 11: 15Watt 20 ohm; 12: 25 Watt 8 ohm; 13: 25 Watt 20 ohm; 14: 25 Watt transformer; 15: 15 Watt transformer; 16: 8 Watt transformer; 17: 25 Watt transformer 70 v; 18: 15 Watt transformer 70 v; 19: 8 Watt transformer 70 v)
- f : Further approvals (00: without; 01: EAC TR; 02: Korea; 03: China; 04: India; 05: Brazil; 06: Taiwan; 07: South Africa)

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Voltage: Max 100V.

Current, max.: 0,25A

Variants: 1. With encapsulated e-chamber and permanently connected cable.
2. «L» in type designation indicates long flare.

Ingress protection: IP66 and IP67 (for e-chamber) according to IEC 60529 Edition 2.1.

[16] **Project No.:** D0001599

Descriptive Documents

Name/Number	Rev.	Date	Title/Description	Sheets/Pages
8494 0 000 001 0	1	21.10.2015	Reference table 8494	1

[17] Special Conditions for Safe Use

The Loudspeaker shall only be installed in areas where there is a low risk of impact.

[18] Essential Health and Safety Requirements

See part 9 of this certificate

END OF CERTIFICATE