



**TYPE APPROVAL CERTIFICATE**  
No. ELE341517XG

**This is to certify** that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	<b>Oil Mist Detector for Diesel- and Gas Engines</b>
<i>Type</i>	<b>VN 115/87 plus; VN 116/87 plus; VN 215/87 plus; VN115/87 plus EX</b>
<i>Applicant</i>	<b>SCHALLER AUTOMATION INDUSTRIELLE AUTOMATIONSTECHNIK GMBH &amp; CO. KG Industriering 14 D_66440 Blieskastel GERMANY</b>
<i>Manufacturer</i> <i>Place of manufacture</i>	<b>SCHALLER AUTOMATION INDUSTRIELLE AUTOMATIONSTECHNIK GMBH &amp; CO. KG Industriering 14 D_66440 Blieskastel GERMANY</b>
<i>Reference standards</i>	<b>RINA Rules for classification of ships, Part C, Machinery systems and fire protection, Ch.3, Sect.6, table 1; IACS UR M67 Rev. 2</b>

*Issued in* **HAMBURG** on **February 13, 2018**. *This Certificate is valid until* **February 12, 2023**



RINA Services S.p.A.  
**Giuseppe Russo**

This certificate consists of this page and 1 enclosure



## TYPE APPROVAL CERTIFICATE

No. ELE341517XG

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VN 115/87 plus

VN 116/87 plus

VN 215/87 plus

VN115/87 plus EX

### Product description:

#### **VISATRON Oil Mist detector type VN 115/87 plus:**

Is able to detect oil mist and release an alarm , without identifying the location of the oil mist source, in the engine crankcase.

#### **VISATRON Oil Mist detector type VN 116/87 plus:**

Is able detect oil mist and release an alarm , indicating the left or right side location of the oil mist source in the engine crankcase.

#### **VISATRON Oil Mist detector type VN 215/87 plus:**

Is able detect oil mist and release an alarm, indicating the compartment with the highest oil mist source in the engine crankcase.

#### **.VISATRON Oil Mist detector type VN 115/87 plus EX:**

Is able to detect oil mist and release an alarm , without identifying the location of the oil mist source, in the engine crankcase. The oil mist detector type VN115/87 Ex is used to detect oil mist in gas- and dual fuel engines. The mixture will be sucked out of the crankcase and the optical measurement section (zone 1) guided over. The maximum optical radiation power is intrinsically safe limited. The device itself is designed for installation in the safe area.

#### **Main characteristics:**

Software ver. 5.xx (.xx for minor changes)  
Supply voltage: 24V DC  
VN 87 Plus includes 4-20 mA output  
Contact output: 1x Pre-alarm , 1x Main alarm  
Connection to monitoring device by RS485 two wire bus

#### **Documents:**

- Operation Manual: 180062 V2.5 dated 08/2017
- Operation Manual Part-No. 180081,VISATRON series VN115/87plus EX (Version 1.2, 05/2016)
- EC- Type Approval Certificate No. IBExU14ATEX1153
- EX-Schutzbeschreibung VN115-87plus Ex

#### **Test Reports:**

**Schaller:** - VN87plus BV M67 dated 07. August 2017; VN87plus CCS M67 dated 10.01.2017  
**DMT:** - 13412-94-016 dated 13/04/94;  
**CETECOM ICT Service GmbH:** - 4-2018-1-2/06 dated 05/18/2006; 4-2912-01-01/07 dated 28/01/2008;  
**CETECOM:** - 022a/94 dated 26/04/94; 1-8082/14-01-03; 1-8082/14-01-04; 1-8082/14-01-05-A; 1-8082/14-01-06;  
**GSSO:** - 07-008268 (22/02/2007)

#### **Remarks:**

- The products fulfill EC-Code: 43.
- This certificate cancels and replace the certificate no.: ELE202715XG. <sup>SN</sup>



HAMBURG February 13, 2018

