



## TYPE APPROVAL CERTIFICATE

No. **ELE097417XG/002**

**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 engine crankcase</b>
<i>Type</i>	<b>VISATRON VN301plus and VN301plus EX</b>
<i>Applicant</i>	<b>SCHALLER AUTOMATION INDUSTRIELLE AUTOMATIONSTECHNIK GMBH &amp; CO. KG Industriering 14 D 66440 Blieskastel GERMANY</b>
<i>Manufacturer</i>	<b>SCHALLER AUTOMATION INDUSTRIELLE</b>
<i>Place of manufacture</i>	<b>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</b>

Issued in **HAMBURG** on **May 4, 2017**. This Certificate is valid until **May 3, 2022**

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

This certificate consists of this page and 1 enclosure



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### VISATRON VN301plus and VN301plus EX

#### Product description:

VISATRON Oil Mist detector type VN301<sup>plus</sup> and VN301<sup>plus</sup> EX is able to protect large diesel engines against oil mist explosion.

The VISATRON VN301<sup>plus</sup> / VN301<sup>plus</sup> EX system consist of following parts:

- 1 to 2 VISATRON VN301<sup>plus</sup> Central Units including compressed air supply system and protection cover.
- 1 to 20 VISATRON VN301<sup>plus</sup> / VISATRON VN301<sup>plus</sup> EX sensor Units
- Ready-made hybrid cables (electric and air supply)
- Monitoring device Remote Indicator II (optional)

#### Four different Sensor Units are available:

- VN301<sup>plus</sup> Sensor Unit, vertical connection
- VN301<sup>plus</sup> Sensor Unit, horizontal connection
- VN301<sup>plus</sup> EX Sensor Unit, vertical connection
- VN301<sup>plus</sup> EX Sensor Unit, horizontal connection

The sensor units are connected via hybrid cable at the central unit. The sensor units are equipped with an wear-free suction system to continuously extract the atmosphere of the crankcase compartments or other engine locations.

#### Technical Data:

Air pressure reducer inlet:	4 - 12 bar
Air consumption:	100l/h per sensor unit
Power supply:	24V DC, max. 2A
Outputs:	Relais: 2x Alarm; 1x Ready; 1x Pre-Alarm (max. 60 Volts DC/AC, 60W, 125VA, 2A)
Communication:	RS485, galvanic isolated (interface to Remote Indicator II)

#### Environmental conditions:

Operating temperature:	5°C - 70°C
Max. vibrations:	4 g (25-100Hz)
Relative humidity:	up to 95%
Protection class.	IP65
Marking for EX Protection:	 II -/2G Ex op is IIB T4 -/Gb

#### Documents:

- Operation Manual VISATRON VN301<sup>plus</sup> / VN301<sup>plus</sup> EX, dated 01/2012; Electrical diagrams, Schaller Automation
- DEKRA EC Type Examination Certificate No.: BVS 11 ATEX E 175

#### Test Reports:

CETECOM: - 1-4083/11-01-02; 1-4083/11-01-03; 1-4083/11-01-05  
GSSO: - Test Report OMD Function test (M67) dated of 15.03.2012  
Schaller: - IACS UR-M67 Rev. 2 dated 22 Mar. 2017

#### Remarks:

- The products fulfill EC-Code: EC33.
- This certificate replace the certificate no.: ELE024412XG/001.

HAMBURG May 04, 2017

