



TYPE APPROVAL CERTIFICATE
No. **ELE186222XG/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>	Oil mist detector for Diesel engine crankcase
<i>Type</i>	VISATRON VN301plus and VN301plus EX
<i>Applicant</i>	SCHALLER AUTOMATION INDUSTRIELLE AUTOMATIONSTECHNIK GMBH & CO. KG Industriering 14 D 66440 Blieskastel GERMANY
<i>Manufacturer</i>	SCHALLER AUTOMATION INDUSTRIELLE
<i>Place of manufacture</i>	AUTOMATIONSTECHNIK GMBH & CO. KG Industriering 14 D 66440 Blieskastel GERMANY
<i>Reference standards</i>	RINA Rules for Classification of ships, Part C, Machinery systems and fire protection, Ch.3, Sect.6, table 1; IACS UR M67

Issued in **HAMBURG** on **August 29, 2022**. This Certificate is valid until **August 28, 2027**

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 VN 301^{plus} and VN301^{plus}EX is able to protect large diesel engines against oil mist explosion.

The VISATRON VN301^{plus} / VN301^{plus}EX system consist of following parts :

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

Different Sensor Units are available :

- VN301^{plus} Sensor Unit,
- VN301^{plus} EX Sensor Unit,

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^{plus} / VN301^{plus}EX, dated 01/2021; 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
TÜV: - 79917_05122019_VN301 plus dated 06.12.2019
Schaller: - IACS UR-M67 Rev. 2 dated 22 Mar. 2017

Remarks:

- The products fulfill EC-Code: EC33.
- This certificate replace the certificate no.: ELE097417XG/002.

HAMBURG August 29, 2022

