



中國驗船中心  
CR Classification Society

Certificate No. 913-18-032


Date May 31, 2018

型式認可證書  
TYPE APPROVAL CERTIFICATE

*This is to certify* that the undernoted product(s) has/have been approved by CR Classification Society in accordance with the requirements given in *CR Rules for the Construction and Classification of Steel Ships, 2018, and IACS UR M67 (Rev.2)* as an approved type for use in ships classed or intended to be classed with the Society.

Manufacturer : Schaller Automation  
Industrielle Automationstechnik GmbH & Co. KG  
Approved Product(s) : Oil Mist Detector for Diesel Engines  
VISATRON Type VN 115/87 Plus  
VISATRON Type VN 116/87 Plus  
VISATRON Type VN 215/87 Plus  
VISATRON Type VN 115/87 Plus EX

*This certificate is valid until* June 24, 2023

  
CHIH-WEN CHENG      中國驗船中心 總驗船師  
Chief Surveyor  
CR Classification Society

(See next page for further details regarding the approval.)

This certificate evidences that the type of the products of the Manufacturer has been assessed to be in compliance with the specified CR Rules or Guidelines and to be capable of providing the listed products. This Certificate may be cancelled by CR Classification Society if the applicant makes any changes or modifications relevant to the approval, which have not been notified to, and agreed in writing with the Society. Any person not a party to the contract pursuant to which this document is delivered may not assert a claim against CR Classification Society for any liability arising out of errors or omissions which may be contained in said documents, or for errors of judgment, fault or negligence committed by personnel of the Society.

Please refer to the CR website for the latest status of this approval: [www.crclass.org/aw0/aw0.htm](http://www.crclass.org/aw0/aw0.htm)

中國驗船中心  
CR Classification Society

**Name of Manufacturer:**

Schaller Automation  
Industrielle Automationstechnik GmbH & Co. KG

**Address of Manufacturer:**

Industriering 14, D-66440 Blieskastel, Germany

**Product Specification:**

VISATRON 87 plus series for Diesel Engines

VN115 : Basic system. Without localization of the point of damage

VN116 : Medium sensitive system. Display of crankcase compartment half with the overheating damage.

VN215 : High sensitive system. With display of the compartment with the overheating damage.

Operation Voltage : 24 V  $\pm$  25% DC

Operation Current : Maximum 3 A

Degree of Protection : IP54

Admissible Operation Temperature : 0 ~ 70 °C

Ex(2G) [Ex op is IIB T4 Gb] 5 °C  $\leq$  Ta  $\leq$  70 °C especially for VN115/87 plus EX

**Related Documents & Remarks:**

1. Operation Manual, Part-No.180062, Version 2.5, 08/2017 for VN115/87 plus, 116/87 plus, 215/87 plus, and Part-No.180081, Version 1.4, 02/2017 for VN115/87 plus EX.
2. Test report of the Oil mist sensor system VN115/87 plus on March 22, 2017, and VN87 plus/ VN87 plus EX on October 01, 2016 in accordance with the rules of the Classification Society and IACS UR M67 Rev. 2.
3. ABS Design Assessment Documentation. Cert. No.: 15-HG1324152-PDA, Oil Mist Detector VISATRON 87 plus series valid until February 11, 2020.
4. DNV-GL Type Approval Documentation. Cert. No.: 33 671 - 06 HH, Oil Mist Detector VISATRON 87 plus series valid until April 01, 2020.
5. LR Type Approval Documentation. Cert. No.: 09/20029(E2), Oil Mist Detector VISATRON 87 plus series valid until November 09, 2019.
6. EC-TYPE Examination Documentation. Cert. No.: IBExU14ATEX1153, Oil Mist Detector VISATRON 87 plus EX issued on January 19, 2015.
7. The intermediate audit is to be carried out and included surveys and tests of the approved products in the presence of the Surveyor, if deemed necessary. In case where the intermediate audit items are not practical, considerations will be given by the Society on a case-by-case basis.

- The End -