DNV·GL

Certificate No:
TAA00002D0

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Safety Unit for Rotating Machinery

with type designation(s)
Oil Mist Detection System VISATRON VN2020 / VN2020 EX

Issued to
Schaller Automation Industrielle Automationstechnik GmbH & Co KG
Blieskastel, Saarland, Germany

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Temperature	**B**
Humidity	**B**
Vibration	**B**
EMC	**A**
Enclosure	**IP54**

Issued at **Hamburg** on **2019-06-26**
This Certificate is valid until **2024-06-25**.
DNV GL local station: **Essen**

for **DNV GL**

Approval Engineer: **Marco Rinkel**

Joannis Papanuskas
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Product description

Visatron Oil Mist Detector for diesel engine crankcase monitoring, types:
VN2020 / VN2020 EX

Power supply	18 Volts – 31.2 Volts DC, max. 2A
Nominal voltage	24 Volts DC
Relay Outputs	2 x 'High Oil Mist Alarm' 1 x 'Ready' 1 x 'Oil Mist Pre-Alarm' (max. 60 Volts AC/DC, 1A)
Cable entry	2 x M25 (8-16mm), 1x M20 (5-13mm)
Communication interface	3 wire RS485, galvanically isolated (CAN-open, galvanically isolated)

For VN2020 EX:

ATEX: II (2G) [Ex op is IIB T4 Gb] +5° C ⩽ Ta ⩽ +70° C
IECEx: [Ex op is IIB T4 Gb] +5° C ⩽ Ta ⩽ +70° C

Application/Limitation

Spare parts are to be supplied in accordance with recommendation in manual.

Product certificate
As long as the units are covered by the Type Approval, a product certificate will not be required. Correct configuration and set up for each delivery to be tested as part of switchboard functional testing and during commissioning after installation.

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Excertificate issued by a notified/recognized Certification Body.

Type Approval documentation

See ANNEX.

Tests carried out

Applicable tests according to Class Guidelines DNVGL-CG-0339, November 2016.
IACS UR M67 Rev. 2, Feb 2015

Marking of product

Manufacturer: Schaller Automation Industrielle Automationstechnik GmbH & Co KG
Model name: As listed under Product description
Serial number: Unique for each delievered item

Periodical assessment

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Retention survey is to be performed at least every second year and at renewal of this certificate.

END OF CERTIFICATE

ANNEX
Type Approval documentation
(hidden)