



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR CRANKCASE OIL MIST DETECTION ARRANGEMENTS

Certificate No. TA22441M

This is to certify that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 6, Part 7 of “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use” and the relevant Society’s Rules.

This certificate is issued to

Manufacturer:	Schaller Automation Industrielle Automationstechnik GmbH & Co., KG,
Place of Manufacturing:	D66440 Blieskastel, Industriering 14, Germany
Product description:	Oil Mist Detectors
Model:	VN115/93, VN116/93, VN215/93
Approval No.:	87A128
Valid until:	18 June 2027

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 22 July 2022.


S. Oishi
General Manager
Machinery Department



Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

Specification & documents:

1. Particulars: Power supply: DC 24 V

2. Components and reference drawings:

Components	Drawing
VN115/93	DC094011
VN116/93	DC094002
VN215/93	DC094003

3. Documentation and Test Reports:

Test Report No. 022a/94

OMD Function Test IACS UR-M67 Rev.2 (22. March 2017)

EMC Test Report 79917_05122019_VN93

- To be continued -

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS ENVIRONMENTAL TESTS (IACS UR E10 Rev. 7 basis)		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		X
Dry heat test (Temperature 70°C × 16 hours)		X
Damp heat test		X
Vibration test (Acceleration 4g × 1.5 hours)		X
Inclination test		X
Cold test (Temperature -25°C × 2 hours)		X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		X
Conducted emission test		X
Flame retardant test		X

2. Approval conditions :

The product is not allowed to be installed in the bridge and open decks.