



**TYPE APPROVAL CERTIFICATE**  
**No. ELE144523XG**

**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>Sample extraction smoke detection system</b>
<i>Type</i>	<b>SDS-72</b>
<i>Applicant</i>	<b>SAFETEC BRANDES UND NIEHOFF GMBH Kringelsburg 2a 21379 Scharnebeck GERMANY</b>
<i>Manufacturer</i>	<b>SAFETEC BRANDES UND NIEHOFF GMBH</b>
<i>Place of manufacture</i>	<b>Kringelsburg 2a 21379 Scharnebeck GERMANY</b>
<i>Reference standards</i>	<b>Rules for the Classification of Ships-Part C - Machinery, Systems and Fire protection - Ch. 3, Sect. 6, Tab. 1, EN 54-2:1997 incl. AC:1999 and A1:2006, EN 54-4:1997 incl. AC:1999, A1:2006 and A2:2006, IEC 60092-504:2016, IEC60533:2015, EN IEC60079-0:2018 incl. AC:2020,</b>

*Issued in* **HAMBURG** on **September 12, 2023**. *This Certificate is valid until* **September 11, 2028**

*Giuseppe Russo*

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

This certificate consists of this page and 1 enclosure

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Enclosure - Page 1 of 1

SDS-72

### Product description:

The SDS-72 is a sample extraction smoke detection system for up to 72 detection lines for cargo holds onboard ships.

### System components:

Type	Name	Remark
ADP-3500	Adapter Module	required for Remote Panel
SDS-3000	Smoke detection panel	
SDS-3104	Smoke detection panel	1-4 detection lines
SDS-3108	Smoke detection panel	5-8 detection lines
SDS-3112	Smoke detection panel	9-12 detection lines
SDS-3208	Extension panel	5-8 detection lines
SDS-3212	Extension panel	9-12 detection lines
SDS-3216	Extension panel	13-16 detection lines
SDS-3300	Smoke detection unit (SDU)	
SDS-3350	Smoke detection unit (SDU-EVD)	
SDS-3500	Remote panel	
SDS-3600	Junction box	for SDS-M0460
SDS-3700	Junction box	for SDS-3300
SDS-3800	3/2-way flap	for fan module SDS-M0460
SDS-M0440*	Fan unit	230V AC
SDS-M0441	Fan unit	110V AC
SDS-M0450*	Fan unit	
SDS-M0460	Fan module	

\* Additional norms applies: DIN EN ISO 80079-36:2016, DIN EN ISO 80079-37:2016, DIN EN 14986:2017, IACS UR-F29 rev.6

### Documents:

DOK02.055 Rev. 14 dated 01.06.2023; DOK02.056 Rev. 7 dated 28.03.2023; DOK02.140 Rev. 14 dated 28.02.2023; DOK02.145 Rev. 5 dated 14.07.2023; DOK22.007 Rev. 1 dated 12.04.2018; DOK22.008 Rev. 1 dated 16.01.2018;

### Test reports:

**Paconsult GmbH:** - 15-7421 dated 10 August 2016;

**Safetec:** - DOK22.002 Rev. 1 dated 08.05.2017; DOK22.003 dated 29.08.2016; DOK22.004 dated 31.01.2017;

**SGS Baseefa Ltd:** - IECEX BAS 12.0091X Issue no. 7 dated 2022-08-19;

**Treo:** - 058-16 issue 3 dated 19-Aug-16; 313-17 issue 1 dated 19-Dec-17; 320-16 issue 1 dated 29-Nov-16; 042-23 V1U dated 02.03.2023

**TÜV NORD CERT GmbH:** - 15012-3-R01 dated Aug. 11, 2016; 16185-1-R01 dated Sep. 13, 2016;

- 16185-2-R00 dated Oct. 27, 2016; 16185-3-R00 dated Dec. 20, 2016; 17228-1-R01 dated Dec. 19, 2017;

- 22184-3-R00 dated May 09, 2023;

### Remarks:

- The products fulfill **EC-Code: 3a1**.
- The EMC requirements for installation on the Bridge and Deck Zones will be fulfilled by the equipment.
- In case of major software modification detailed information and suitable documents are to be submitted to the Society.
- Drawings of each system configuration is to be sent for approval before installation on board.
- The following documentation of the actual application is to be submitted for approval in each case:
  - + Reference to this Type Approval Certificate
  - + System block diagram including indication of power supply sources.
  - + Arrangement drawing showing location of suction points and central units.
  - + Intrinsically safe application to be approved in each case.

HAMBURG 12/09/2023

