



**TYPE APPROVAL CERTIFICATE**  
No. **ELE352717XG**

**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</b> <b>Arenskule 7 to 9</b> <b>D 21339 Luneburg</b> <b>GERMANY</b>
<i>Manufacturer</i>	<b>SAFETEC Brandes und Niehoff GmbH</b>
<i>Place of manufacture</i>	<b>Arenskule 7 to 9,</b> <b>D 21339 Luneburg</b> <b>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 and ; EN54-2 (1997) incl. AC(1999) and A1(2001); EN54-4(1997) incl. AC(1999) , A1(2002) and A2(2006),; EN54-20 (2006) incl. AC(2008); EN600079-0(2012) incl. A11(2013); IEC60092-504 (2016); IEC60533 (2015)</b>

Issued in **HAMBURG** on **May 24, 2018**. This Certificate is valid until **May 23, 2023**

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

This certificate consists of this page and 1 enclosure



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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-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-M0460	Fan module	

### Documents:

DOK02.055 Rev. 6 dated 15.01.2013; DOK02.056 Rev. 4 dated 30.07.2012; DOK02.140 Rev. 6 dated 27.04.2018;  
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: - IECX BAS 12.0091X Issue no. 3 dated 2015-02-23;  
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;  
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;

### 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 May 24, 2018



A handwritten signature in blue ink, appearing to be 'J. P. ...', is written over the RINA logo.

