



Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate supersedes certificate number 17/20105 issued on 29.05.2018 which is hereby cancelled.

This certificate is issued to:

| | |
|--------------------|---|
| PRODUCER | safetec Brandes und Niehoff GmbH Arenskule 7-9 21339 Lüneburg Germany |
| DESCRIPTION | Sample extraction smoke detection system |
| TYPE | SDS-72 Comprising: ADP-3500 adapter module SDS-3000 smoke detection panel SDS-3104 smoke detection panel SDS-3108 smoke detection panel SDS-3112 smoke detection panel SDS-3208 extension panel SDS-3212 extension panel SDS-3216 extension panel SDS-3300 smoke detection unit SDU SDS-3500 remote panel SDS-3600 junction box for fan module SDS-3700 junction box for SDU SDS-3800 3/2-way flap for fan module SDS-M0460 |

| | |
|------------------------|---------------|
| Certificate No. | 17/20105 (E1) |
| Issue Date | 31 May 2018 |
| Expiry Date | 28 May 2023 |
| Sheet | 1 of 2 |


 Thorsten Wolff
 Hamburg Technical Support Office
 Lloyd's Register
 Lloyd's Register EMEA
LR031.1.2013.12

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TYPE continued

SDS-M0440 fan unit
SDS-M0441 fan unit
SDS-M0460 fan module

Firmware version: CM3100A-01.01.000
CM3100B-01.01.000

APPLICATION

Marine, offshore and industrial applications for use in environmental categories ENV1 and ENV2 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – July, 2015.

STANDARD

Manufacturer's specification
EN 54-2:1997 incl. AC:1999 and A1:2006
EN 54-4:1997 incl. AC:1999, A1:2002 and A2:2006
EN 54-20:2006 incl. AC:2008
IEC 60092-504:2016
IEC 60533:2015
MSC.98(73)-(FSS- Code) 10

RATINGS

Power supply: 220/ 230 V AC
110/115 V AC
50/ 60 Hz

OTHER CONDITIONS

Ratings for application in hazardous areas are to be obtained from the applicable Ex Certificates.

The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

The Design Appraisal Document No. HTS/ETS 36970-18 and its supplementary Type Approval Terms and Conditions form part of this Certificate.



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