



Lloyd's
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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 05/20018 (E2) issued on 31.08.2015 which is hereby cancelled.

This certificate is issued to:

PRODUCER	safetec Brandes und Niehoff GmbH Kringelsburg 2a 21379 Scharnebeck Germany
DESCRIPTION	Fire Detection System and Control/Fire Detection for Fixed Water Based Local Application Fire Fighting Systems (FWBLAFFS), Sprinkler and Engine Room Full Protection System, Electrical Control of Gas Extinguishing System (CO2 and other Gases)
TYPE	ACS-1 Comprising the following modules: CP-110 Fire detection panel with adapter module ADP-174 CP-209 Remote release panel with adapter module ADP-170 CP-240 CO2 remote release panel with adapter module ADP-162 CP-410 Display panel for water mist system with adapter module ADP-170/-172 CP-411 Display panel for fire alarm system with adapter module ADP-170/-172 CP-412 Display panel for sprinkler alarm system with adapter module ADP-170/-172 CP 490 Sprinkler Alarm Panel CAN-REDU-1 CAN bus interface module
Certificate No.	05/20018 (E3)
Issue Date	26 June 2019
Expiry Date	25 June 2024
Sheet	1 of 3




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LR031.1.2016.06

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TYPE (continued)	RP-01 / RP-02	Local release box
	MC-308	Module cabinet
	MC-312	Module cabinet
	MC-316	Module cabinet
	ACS-OUT48	Output module
	ACS-OPTO16-A	Opto couplers (working current) with terminals for end and alarm resistors
	ACS-OPTO16-R	Opto couplers (quiescent current) with terminals for end and alarm resistors
	ACS-OPTO48-A	Opto couplers (working current)
	ACS-OPTO48-R	Opto couplers (quiescent current)
	ACS-REL16	Relay module
	800/24 VST-K-NT	UV-Flame Detector. Egon Harig GmbH
	IO-630x	I/O-module x= 0, 2, 3
	IO-634x	Input module x= 0, 3
	POW-6510	Battery charger module
	MEPS-01	Main/emergency power supply switch
	Vbxxx-MAR(-U)	Electric valve actuator (xxx = 030, 060, 110, 190, 270, 350)

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 -2013.

STANDARD Manufacturer's specification
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

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

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OTHER CONDITIONS

The system is only to be used with fire detectors which are listed in safetec Alarm and Control System ACS-1 Manual (DOK02.201, Rev. 1.02 dated 01.10.2018) having a valid Lloyd's Register Type Approval Certificate. Plan Approval in compliance with applicable Lloyd's Register Rules and Regulations is to be conducted for every application.

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 38398-19 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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