

CERTIFICATE

Robert Bosch A/S
Telegrafvej 1
2750 Ballerup
Danmark

Certifikat nr.
Certificate no.
232.297

har på baggrund af vurderede systemegenskaber baseret på systemprøvningsrapport(er) for overensstemmelse mellem systembeskrivelse og gældende specifikationer i systemstandarder og/eller andre normative dokumenter opnået dette overensstemmelsescertifikat for systemet
has achieved this certificate of conformity based on evaluation of system approval test report(s) for conformity between system standards and(or) other normative documents for the system

BOSCH AVENAR Fire Alarm System **Automatisk Branddetekterings- og Alarm-system**
Automatic Fire Detection and Alarm System

til anvendelse i automatiske brandalarmanlæg.
to be used in automatic fire detection and alarm systems.

Certifikatet tilkendegiver overensstemmelse med kravene i følgende standarder og andre normative dokumenter:
The certificate signifies compliance with the requirements in the following standards and other normative documents:

EN 54-13:2005 Fire detection and fire alarm systems – Part 13:
Compatibility assessment of system components.

DBI Guideline 003 Fire safety systems

Certifikatet er kun gældende så længe systemet er i overensstemmelse med ovennævnte samt kravene i certificeringsordningen.

The certificate is only valid as long as the system is in conformity with the above mentioned and the requirements of the certification system.

Udstedt/Issued: 2023-10-02
Udløber/Expires: 2026-10-02



Merete Poulsen



Steen Nilsson

Bilag/Annex: 1

OMFANG/EXTENT

Type Type	Produkt Product	Certifikat Certificate
Control and indicating equipment with Power supply	AVENAR panel 2000	0786-CPR-21700
Control and indicating equipment with Power supply	AVENAR panel 8000	0786-CPR-21699
Heat detector - Point heat detector with Short-circuit isolator	AVENAR detector 4000 FAH-425-T-R	0786-CPR-21402
Smoke detector - Point detector using scattered light, transmitted light or ionization with Short-circuit isolator	AVENAR detector 4000 FAP-425-O	0786-CPR-21398
Smoke detector - Point detector using scattered light, transmitted light or ionization with Short-circuit isolator	AVENAR detector 4000 FAP-425-O-R	0786-CPR-21399
Heat detector and Smoke detector - Point detector using scattered light, transmitted light or ionization with Short-circuit isolator	AVENAR detector 4000 FAP-425-OT	0786-CPR-21400
Heat detector and Smoke detector - Point detector using scattered light, transmitted light or ionization with Short-circuit isolator	AVENAR detector 4000 FAP-425-OT-R	0786-CPR-21401
Smoke detector - Point detector using scattered light, transmitted light or ionization with Short-circuit isolator	AVENAR detector 4000 FAP-425-DO-R	0786-CPR-21403
Heat detectors and Smoke detector - Point detectors using scattered light, transmitted light or ionization with Short-circuit isolator	AVENAR detector 4000 FAP-425-DOT-R	0786-CPR-21404
Heat detector and Smoke detector - Point detector using scattered light, transmitted light or ionization with Short-circuit isolator	AVENAR detector 4000 FAP-425-DOTC-R	0786-CPR-21405
Heat detector and Smoke detector - Point detector using scattered light, transmitted light or ionization with Short-circuit isolator	AVENAR detector 4000 FAP-425-DOTCO-R	CPR 0786-CPR-21798 FAP-425-DOTCO-R
Smoke detector - Optical Smoke detector - Point detector using scattered light	Smoke detector optical, white FAP-O 520	CPR 0786-CPR-20201
Smoke detector - Optical Smoke detector - Point detector using scattered light	Smoke detector, optical, color inserts FAP-O 520-P	CPR 0786-CPR-20201
Multi Sensor Detectors - optical/chemical Smoke detector Smoke detector	Detector, optical/chemical, white FAP-OC 520	CPR 0786-CPR-20202
Multi Sensor Detectors - optical/chemical Smoke detector Smoke detector	Detector optical/chemical, color inserts FAP-OC 520-P	CPR 0786-CPR-20202
Linear Smoke Detectors – Aspirating smoke detector	FCS-320-TP Serie	0786-CPD-20790

Linear Smoke Detectors – Aspirating smoke detector	FCS-320-TT Serie	0786-CPD-20790
Linear Smoke Detectors – Aspirating smoke detector	FAS-420-TP Serie	0786-CPD-20790
Linear Smoke Detectors – Aspirating smoke detector	FAS-420-TT Serie	0786-CPD-20790
Linear Smoke Detectors – Aspirating smoke detector	FAS-420-TM	0786-CPD-20789
Smoke detection equipment for air ducts	FAD-420-HS-EN	0786-CPR-21151
Rate-of-Rise Heat Detector	FCH-T 320	0786-CPD-20353
Manual Call Points	FMC-210-DM-G-R	0786-CPD-20293
Manual Call Points (continued)	FMC-210-DM-H-R	0786-CPD-20293
Manual Call Points (continued)	FMC-210-SM-G-R	0786-CPD-20316
Manual Call Points (continued)	FMC-300RW	0786-CPD-20332
Manual Call Points (continued)	FMC-420RW	0786-CPD-20333
Manual Call Points (continued)	FMC-420-RW-HSGRD	0786-CPD-20942
Manual Call Points (continued)	FMC-420-RW-HSRRD	0786-CPD-20943
Sounders	DS10	0786-CPD-20005
Sounders	MSS 400/401	0786-CPD-20186
Sounders	MSS 300	0786-CPD-20185
Sounders	FNM-420-A-RD	0832-CPD-1006
Sounders	FNM-420-A-WH	0832-CPD-1006
Sounders	FNM-420-B-RD	0832-CPD-1007
Sounders	FNM-420-A-BS-RD	0832-CPD-1008
Sounders	FNM-420-A-BS-WH	0832-CPD-1008
Sounders	FNM-420U-A-BS	0786-CPD-21133
Sounders	FNM-420U-A-WH	0786-CPD-21134

Sounders	FNM-420U-A-RD	0786-CPD-21134
Sounders	FNM-420U-B-RD	0786-CPD-21134
Sounders	FNM-320-SRD	0832-CPD-1374
Sounders	FNM-320-FRD	0832-CPD-1374
Sounders	FNM-320-SWH	0832-CPD-1374
Sounders	FNM-320-FWH	0832-CPD-1374
Sounders	FNM-320 LED SRD	0832-CPD-1375
Visual Alarm Devices	SOL-LX-	0333-CPD-075443
Visual Alarm Devices	SOL-LX-	0333-CPD-075441
Visual and audible alarm Devices	FNX-425U-	1438-CPR-0744
Output Devices	FLM-420-NAC	0786-CPD-20375
Output Devices	FLM-420-RHV	0786-CPD-20376
Output Devices	FLM-420-RLV1	786-CPD-20291
Output Devices	FLM-420-O1I1-D	786-CPD-20715
Output Devices	FLM-420-O1I1-E	786-CPD-20714
Output Devices	FLM-420-O8I2-S	786-CPD-20795
Output Devices	FLM-420-RLV8-S	786-CPD-20559
Input Devices	FLM-420-I2	0786-CPD-20288
Input Devices	FLM-420-I8R1-S	0786-CPD-20560
Input/Output Devices	FLM-420/4-CON	0786-CPD-20399
Input/Output Devices	FLM-320-EOL2W-W	0786-CPD-20926
Input/Output Devices	FLM-420-EOL2W-W	0786-CPD-20927

Input/Output Devices	FLM-320-EOL4W-S	0786-CPD-21028
Input/Output Devices	FLM-420-EOL4W-D	0786-CPD-21027
Input/Output Devices	FLM-420-RLE-S	0786-CPD-20725
Indicating Equipment	ATG 100 LSN	0786-CPD-20596
Indicating Equipment	ATB 100 LSN BAT 100 LSN	0786-CPD-20596
Isolating Device	FLM-I 420-S	0786-CPD-20374

Bilag/Annex: 2

PRØVNINGS DOKUMENTATION

TEST DOKUMENTATION

Akkediteret laboratorium <i>Accredited laboratory</i>	Rapport nr <i>Report no.</i>	Dato <i>Date</i>
VdS	150771-AU03+BZA01-PB01	07.07.2016
VdS	181133-AU17+BZA02-PB01	08.04.2022
VdS	182333-AU01+SPB04-PB01	20.11.2019
VdS	220599-AU01+BZA01-PB01	11.08.2022
VdS	BMA 07044	14.05.2007
VdS	BMS 08096	05.08.2008
VdS	BMA 11016	04.03.2011
VdS	G 214070	31.07-2023
VdS	G 218070	16.07.2022

Bilag/Annex: 3

TEKNISK DOKUMENTATION TECHNICAL DOCUMENTATION

Titel Name	Reference Refence	Dato Date
System Manual	F.01U.378.910	2023-03, Ver. 7.0
User Guide	F.01U.378.877	2022-02, Ver. 6.0
Quick Guide	F.01U.364.486	2020-07, Ver. 4.0

Bilag/Annex: 4

AFVIGELSER DEVIANCE

After the short circuit on the radio link transmission path, the LSN loop does not restart. No alarm or fault messages are transmitted. The communication to all connected participants of the loop stops.

For the installation it is elementary to make sure that one detector can transmit its information via two paths.