SIEMENS

Sinteso™ Cerberus™ PRO

# Sounder beacon base (voice)

FDSB226-Wx, FDSB227-Wx, FDSB227-Wx-C



**Sounder beacon base (voice) for ceiling mounting for use in the automatically addressable FDnet/C-NET**

- Addressed (FDnet/C-NET)
- Meets the requirements of the EN 54-3 and EN 54-23 standards
- Supply and communication via FDnet/C-NET
- Max. 16 tones to choose from, 2 programmable events: 'Alert' and 'Evacuation'
- Adjustable sound levels up to max. 102 dBA
- Red and white LEDs with four adjustable luminous intensities
- Additional voice output for FDSB227-Wx and FDSB227-Wx-C:
  - 15 languages integrated in the device, additional languages can be ordered
  - Each voice message can be emitted in two languages
  - Max. seven available events
  - Customer-specific voice messages and/or tones can be ordered
- Compatible with all addressed fire detectors 'Sinteso' and 'Cerberus PRO'

## Properties

- Integrated line separator
- The device automatically monitors its beacon and acoustic function.
- Tool-free connection to the detector line. Possible conductor cross-sections to 2.5 $mm^2$.
- Max. protection category achievable: IP21C
- Synchronization of acoustic and beacon signals as well as voice messages (voice messages only for FDSB227-Wx and FDSB227-Wx-C).
- By setting the appropriate tone, it can be used as a break bell in schools or plants.
- For FDSB227-Wx and FDSB227-Wx-C: Simple configuration of the voice messages with the configuration software for the respective fire detection system:
  - 'SintesoWorks' for the 'Sinteso' product line
  - 'Cerberus-Engineering-Tool' for the 'Cerberus PRO' product line
- Operation without a fire detector is possible with the blanking plate FDBZ298.
- Protected electronics and high-quality components
- Eco-friendly:
  - Environmentally friendly processing
  - Reusable materials
  - Electronic parts and synthetic materials can be easily separated

## Use

- Public buildings
- Office buildings
- Hotels
- Schools and kindergartens

### Intended use

The devices FDSB226-Wx, FDSB227-Wx, and FDSB227-Wx-C are intended to be used as alarm devices on an FDnet/C-NET detector line in connection with a fire control panel FC20xx ('Sinteso' product line) or FC72x ('Cerberus PRO' product line).

### Functions shared by all device types

The devices provide an alarm in an addressed fire detection system FS20/FS720. They activate an acoustic and an optical signal in the event of a fire alarm. Each device has 16 tones ex-factory.

All devices have their own device addresses and can be configured independently of each other.

### Voice sounder beacon base FDSB227-Wx

In the event of a fire alarm, the device activates both an acoustic and an optical alarm signal (with the LEDs flashing). The device is available with red or white flashing LEDs.

In addition, the device can emit prerecorded standard voice messages:

- 15 standard languages are already integrated in the device.
- Standard voice messages have been recorded for five events per language. The following events are available:
  - Evacuation Fire
  - Evacuation Emergency
  - Alert
  - Test
  - All clear
- The voice messages can be emitted in two consecutive languages.

You will find more information on voice messages in the 'Standard voice messages' section of this data sheet.

### Voice sounder beacon base FDSB227-Wx-C

In terms of its functionality, this device corresponds to FDSB227-Wx. Customer-specific configurations can also be integrated ex-factory:

- Two additional languages in addition to the 15 standard languages
- Two additional tones in addition to the 16 tones
- Two more events in two languages in addition to the five events

You will find more information on the additional functions of the customer-specific devices in the 'Customer-specific languages, tones, and voice messages' section of this data sheet.

## Standard voice messages

The devices include prerecorded standard voice messages for five events in 15 languages.
The standard voice messages are available in the following languages:

- English (en) [1]
- German (de)
- French (fr)
- Spanish (es)
- Italian (it)
- English (UK)
- Dutch (nl)
- Swedish (sv)
- Norwegian (no)
- Finnish (fi)
- Danish (da)
- Polish (pl)
- Portuguese (pt)
- Turkish (tr)
- Russian (ru)

[1] The abbreviations used comply with the ISO 639-1 standard.
Exception: 'English (UK)'

The following table lists examples of standard voice messages in some languages:

| Language | Message M1<br>Evacuation Fire | Message M2<br>Evacuation Emergency | Message M3<br>Alert | Message M4<br>Test | Message M5<br>All clear |
|---|---|---|---|---|---|
| **English** | Attention please, this is a fire alarm! Please leave the building immediately by the marked available exits. | Attention please, this is an emergency. Please leave the building by the marked available exits. | Attention, an incident has been reported in the building, please await further instructions. | This is a test message, no action is required. | Attention please! All clear! The building alert has been resolved. All clear! |
| **German** | Achtung! Achtung! Dies ist ein Brandalarm! Bitte verlassen Sie umgehend das Gebäude über die gekennzeichneten Fluchtwege. | Achtung! Achtung! Dies ist eine Gefahrenmeldung! Bitte verlassen Sie umgehend das Gebäude über die gekennzeichneten Fluchtwege. | Achtung, im Gebäude ist eine Gefahrensituation gemeldet worden! Bitte warten Sie auf weitere Anweisungen. | Dies ist eine Testdurchsage! Bitte nicht beachten. | Achtung! Achtung! Die Alarmierung wird hiermit wieder aufgehoben. |
| **French** | Attention, attention! Ceci est une alarme incendie! Evacuez le bâtiment par les sorties de secours les plus proche! | Attention, attention! Pour des raisons de sécurité evacuez le bâtiment par les sorties de secours les plus proche! | Attention, attention! Un incident a été signalé dans le bâtiment. Veuillez attendre de nouvelles instructions! | Ceci est un message de tests. Veuillez s'il vous plaît ne pas en tenir compte. | Attention, attention! L'urgence dans le bâtiment est levée. Retour à la situation normale. |
| **Spanish** | ¡Este es un aviso de alarma de incendio! Por favor abandone el edificio por la salida más cercana. | Atención por favor,esto es una emergencia. Por favor abandone el edificio por la salida más cercana. | Se ha reportado un incidente en el edificio, por favor espere instrucciones mas detalladas. | Este es un mensaje de prueba, no se requiere ninguna acción. | Atención por favor! Fin de la alerta. La alerta del edificio ha sido resuelta. Fin de la alerta! |
| **Italian** | Attenzione, questo è un allarme incendio! Evacuare l'edificio immediatamente attraverso l'uscita più vicina. | Attenzione, questa è un'emergenza. Evacuare l'edificio attraverso l'uscita più vicina. | Si è verificato un problema nell'edificio, si prega di attendere ulteriori informazioni. | Questo è un messaggio di prova, nessuna azione è necessaria. | Attenzione prego! Il problema riscontrato nell'edificio è stato risolto. Nessun pericolo! |

You will find more information on the voice messages in the technical manual for the devices. See the 'Product documentation' section in this data sheet.

## Customer-specific languages, tones, and voice messages

Additional languages and voice messages as well as more tones are available on request.

You will find more information on the voice messages and the ordering process for customer-specific devices in the technical manuals for the devices (see section 'Product documentation [➞ 6]').

## Type Overview

| Type [1] | Designation | Order number | Weight [kg] |
|---|---|---|---|
| FDSB226-WR | Sounder beacon base | S54364-F13-A1 | 0.253 |
| FDSB226-WW | Sounder beacon base | S54364-F14-A1 | 0.253 |
| FDSB227-WR | Voice sounder beacon base | S54364-F15-A1 | 0.253 |
| FDSB227-WW | Voice sounder beacon base | S54364-F16-A1 | 0.253 |
| FDSB227-WR-C [2] | Voice sounder beacon base | S54364-F15-A2 | 0.253 |
| FDSB227-WW-C [2] | Voice sounder beacon base | S54364-F16-A2 | 0.253 |

| | | | | |
|---|---|---|---|---|
| [1] | FDSB22x- | W | R | |
| | | | Color of the LED (R = red, W = white) | |
| | | Color of the housing (W = white) | | |
| [2] | C = customer-specific device | | | |

## Accessories

| Type | Designation | Order number | Weight [kg] |
|---|---|---|---|
| FDB228 | Base (ceiling mounting) | S54364-B5-A1 | 0.067 |
| FDB229 | Base deep (ceiling mounting) | S54364-B6-A1 | 0.092 |
| FDBZ221 | Ring attachment | S54364-B7-A1 | 0.015 |
| FDBZ298 | Blanking plate | S54364-B8-A1 | 0.030 |
| FDBZ291 | Designation plate | A5Q00002621 | 0.002 |
| FDBZ293 | Detector locking device | A5Q00005035 | 0.001 |
| LP720 | Detector locking device | S54319-F9-A1 | 0.001 |
| DBZ1190-AA | Micro terminal 0.28…0.5 $mm^2$ | BPZ:4677080001 | 0.001 |
| DBZ1190-AB | Connection terminal 0.5…2.5 $mm^2$ | BPZ:4942340001 | 0.001 |

## Product documentation

| Document ID | Title |
|---|---|
| 008164 | Equipment overview Sinteso™ Detector system FD20 |
| 008331 | List of compatibility (for 'Sinteso™' product line) |
| 009078 | FS20 Fire detection system - Configuration |
| A6V10210424 | FS720 Fire detection system - Configuration |
| A6V10229261 | List of compatibility (for 'Cerberus™ PRO' product line) |
| A6V10725364 | Technical Manual FDSB226-Wx, FDSB227-Wx, FDSB227-Wx-C |

Related documents such as the environmental declarations, CE declarations, etc., can be downloaded from the following Internet address:

https://siemens.com/bt/download

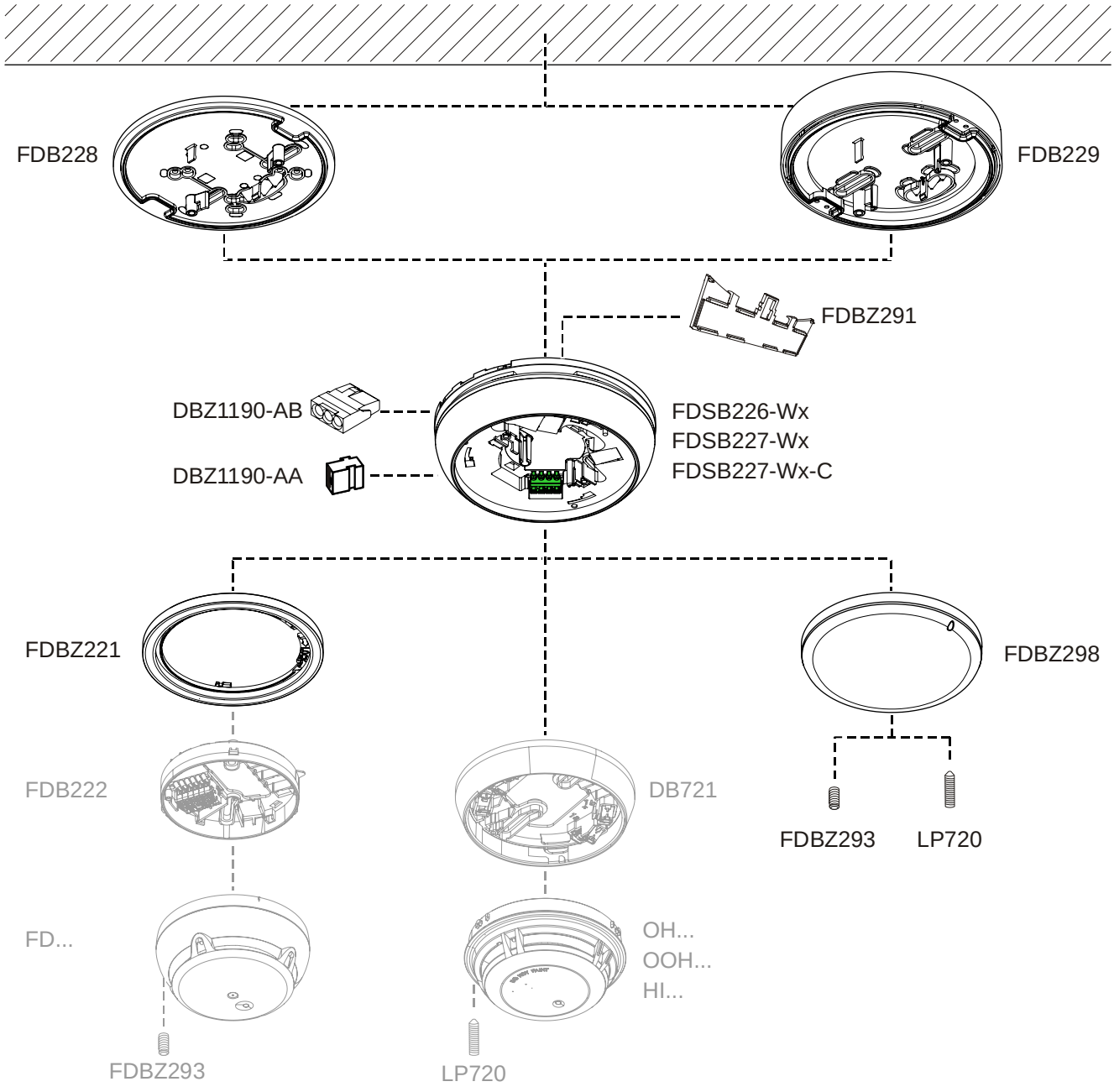
## Notes

### Mounting

The devices are mounted into a base (ceiling mounting) FDB228 or a base deep (ceiling mounting) FDB229.

A fire detector Sinteso™ with a detector base FDB222 and ring attachment FDBZ221 or a fire detector Cerberus™ PRO with a detector base DB721 can be mounted in the device.

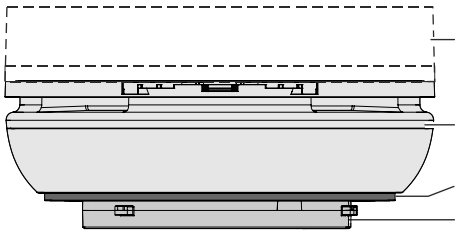
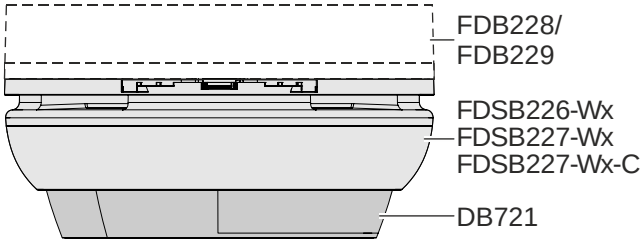
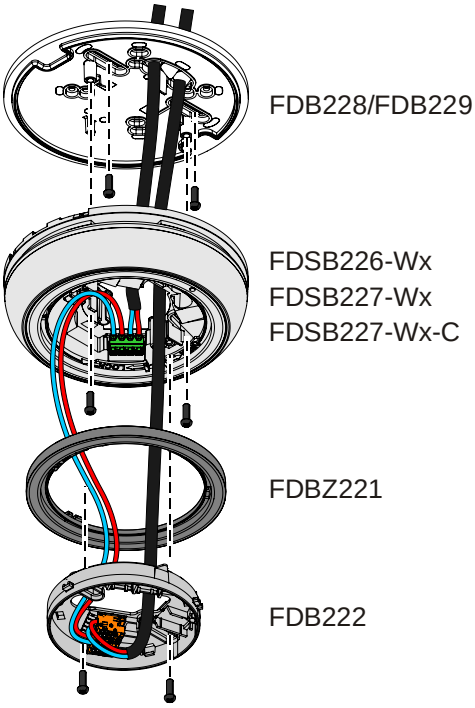
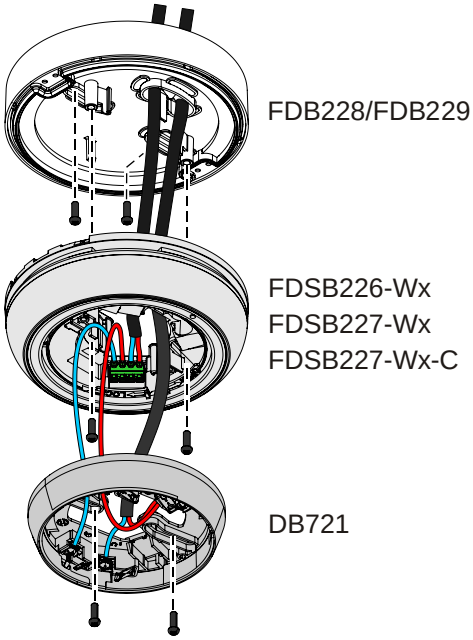
If a fire detector is not mounted in the device, insert the blanking plate FDBZ298 into the device and secure with the detector locking device FDBZ293 or LP720.




*Devices and accessories*

## Installation

The detector circuit (FDnet/C-NET) is connected to the device and to the detector base FDB222 or DB721.

| Sinteso™:<br>Detector base FDB222 with ring attachment FDBZ221 | Cerberus™ PRO:<br>Detector base DB721 |
|---|---|
|  |  |
| FDnet<br> | C-NET<br> |

## Disposal



The device is considered an electronic device for disposal in accordance with the European Guidelines and may not be disposed of as domestic garbage.

- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

## Technical data

| Supply | | |
|---|---|---|
| Operating voltage | | DC 16...33 V |
| Operating current (quiescent) | | 400 µA |
| • Tone/voice activated [1] | | Max. 5 mA (140 mW) |
| • Beacon activated | LED white | High (O-4-15): 26 mA (416 mW) |
| | | Medium (C-3-12): 17 mA (272 mW) |
| | | Low (O-2.5-6.5): 9 mA (144 mW) |
| | | Indicator: 3 mA (48 mW) |
| | LED red | High (C-3-12): 24 mA (384 mW) |
| | | Medium (C-3-10): 18 mA (288 mW) |
| | | Low (O-2.5-6.5): 12 mA (192 mW) |
| | | Indicator: 3 mA (48 mW) |
| • Beacon and tone/voice activated [1] | LED white | High (O-4-15): 30 mA (528 mW) |
| | | Medium (C-3-12): 22 mA (400 mW) |
| | | Low (O-2.5-6.5): 15 mA (288 mW) |
| | | Indicator: 7 mA (192 mW) |
| | LED red | High (C-3-12): 29 mA (512 mW) |
| | | Medium (C-3-10): 23 mA (416 mW) |
| | | Low (O-2.5-6.5): 17 mA (320 mW) |
| | | Indicator: 7 mA (192 mW) |

[1] Max. sound level for tone and voice output is taken into account

| Functional data | | |
|---|---|---|
| Tones | | • 16 tones (including school bell)<br>• 2 events ('Warning' and 'Evacuation')<br>• 3 sound levels (maximum / medium / minimum) |
| Voice messages | | • 5 standard voice messages in 15 languages<br>• Max. 7 events<br>• 3 sound levels (maximum / medium / minimum)<br>• Each voice message can be emitted in two languages |
| Sound level (alarm sound level) | | FDSB226-Wx: 71…96 dBA |
| | | FDSB227-Wx, FDSB227-Wx-C: 71…93 dBA |
| Luminous intensity (according to EN 54-23) | LED white | High (O-4-15) |
| | | Medium (C-3-12) |
| | | Low (O-2.5-6.5)<br>(Ceiling-mounted, cylindrical cover cap as in category C) |
| | | Indicator: 0.8…1.5 cd [1] |
| | LED red | High (C-3-12) |
| | | Medium (C-3-10) |
| | | Low (O-2.5-6.5)<br>(Ceiling-mounted, cylindrical cover cap as in category C) |
| | | Indicator: 0.5…1.3 cd [1] |
| Luminous intensity levels | | 4 levels (high/medium/low/indicator) |
| Communication protocol | | FDnet/C-NET |
| System compatibility FDnet/C-NET | | FS20/FS720 |
| Color of sounder base:<br><br>Color of base (ceiling mounting) and base deep (ceiling mounting): | | ~RAL9010 pure white / transparent<br><br>~RAL9010 pure white |

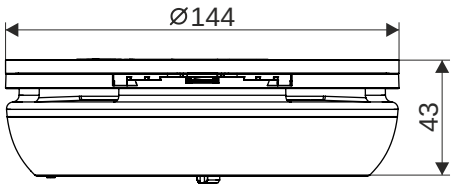
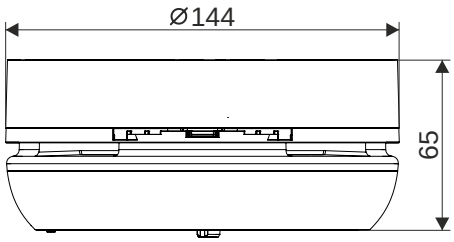
[1] Depending on viewing angle, does not comply with EN 54-23

| Line connections | |
|---|---|
| Conductor cross section | 0.2...2.5 mm² |

| Ambient conditions and protection category | |
|---|---|
| Protection category (IEC 60529):<br>• With base FDB228:<br>• With base deep FDB229: | <br>• IP21C<br>• IP21C |
| Operating temperature | -25...+70 °C |
| Storage temperature | -30...+75 °C |
| Air humidity | ≤95 % rel. |

| Standards, directives, and approvals | | |
|---|---|---|
| Standards | EN 54-3 type A, EN 54-17<br>EN 54-23 type A | |
| Approvals:<br>• VdS<br><br>• LPCB | <br>FDSB226-Wx<br>FDSB227-Wx, FDSB227-Wx-C<br>Pending | <br>G219017<br>G219018 |

## Dimensional drawings

| Device with base (ceiling mounting) FDB228 | Device with base deep (ceiling mounting) FDB229 |
|---|---|
|  |  |

| 19 CE 0786 | **FDSB226** | Siemens Schweiz AG; Theilerstrasse 1a<br>CH-6300 Zug<br>Technical data: see doc. **A6V10725364** |
|---|---|---|
| FDSB226 - Visual alarm device/sounder incl. short-circuit isolator | | |
| 305/2011/EU (CPR): EN 54-3 / EN 54-17 / EN 54-23 ; 2014/30/EU (EMC): EN 50130-4 / EN 61000-6-3 ; 2011/65/EU (RoHS): EN 50581 | | |
| The declared performance and conformity can be seen in the Declaration of Performance (DoP) and the EU Declaration of Conformity (DoC), which is obtainable via the Customer Support Center: Tel. +49 89 9221-8000 or https://siemens.com/bt/download | | |
| DoP No.: DOP190101 ; DoC No.: CED-FDSB226 | | |

| 19 CE 0786 | **FDSB227** | Siemens Schweiz AG; Theilerstrasse 1a<br>CH-6300 Zug<br>Technical data: see doc. **A6V10725364** |
|---|---|---|
| FDSB227 - Visual alarm device/sounder incl. short-circuit isolator | | |
| 305/2011/EU (CPR): EN 54-3 / EN 54-17 / EN 54-23 ; 2014/30/EU (EMC): EN 50130-4 / EN 61000-6-3 ; 2011/65/EU (RoHS): EN 50581 | | |
| The declared performance and conformity can be seen in the Declaration of Performance (DoP) and the EU Declaration of Conformity (DoC), which is obtainable via the Customer Support Center: Tel. +49 89 9221-8000 or https://siemens.com/bt/download | | |
| DoP No.: DOP190102 ; DoC No.: CED-FDSB227 | | |

Issued by
Siemens Switzerland Ltd
Building Technologies Division
International Headquarters
Theilerstrasse 1a
CH-6300 Zug
Tel. +41 58 724 2424
www.siemens.com/buildingtechnologies

© Siemens Switzerland Ltd, 2019
Technical specifications and availability subject to change without notice.

Document ID A6V10725079_en--_a
Edition 2019-03-15