# SIEMENS

# Alarm sounder with supplementary optical indication

## FDS229-R, FDS229-A

**For the automatically addressed detector bus FDnet/C-NET**

- Alarm sounder with 11 tones to choose from, 2 programmable activation levels
- Sound level up to 99 dB(A); can be set on three levels
- Optical indication with set flashing sequence, adjustable flashing mode
- Supply and communication via FDnet/C-NET
- Compatible with addressed detector base
- Option of using base accessories and sealing element
- Monitoring of device status

## Properties

### Eco-friendly

- Environmentally friendly processing
- Reusable materials
- Electronic parts and synthetic materials can be easily separated

### Features

- Protected electronics, high-quality components
- Integrated line separator
- Adjustable sounds and sound levels, sounds synchronized for all alarm devices
- Adjustable flashing mode
- Addressed base FDB221/222 with screwless connection terminals
- No auxiliary supply necessary; supply takes place via FDnet/C-NET
- Very low operating current
- Periodic test of acoustic part (inaudible)
- Monitoring of device status

## Use

- Along escape routes
- Corridors
- Staircases

## Intended use

The alarm sounder FDS229 is intended for use as an alarm device on an FDnet/C-NET detector line in conjunction with a fire control panel FC20xx ('Sinteso' product line), FC72x ('Cerberus PRO' product line), or FC361-xx ('Cerberus FIT' product line).
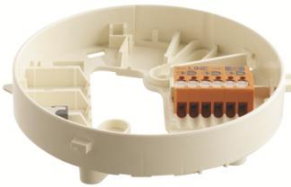
## Functions

- Acoustic alarming in the event of a fire alarm; clearly recognizable as a danger signal
- Additional optical display
- Synchronization of sounds with all alarm sounders and sounder bases on the same detector line (FDnet/C-NET)
- Flashing mode
  - The optical indication flashes when 'Alert' or 'Evac' is activated
  - The optical indication only flashes when 'Evac' is activated, not when 'Alert' is

## Type Overview

| Type | Designation | Order number | Weight [kg] |
|------|-------------|--------------|-------------|
| FDS229-R | Alarm sounder with supplementary optical indication, red | A5Q00023093 | 0.130 |
| FDS229-A | Alarm sounder with supplementary optical indication, orange | A5Q00023092 | 0.130 |

Accessories

| Type | Designation | Order number | Weight [kg] |
|---|---|---|---|
| FDB221 | Detector base, addressable | A5Q00001664 | 0.027 |
| FDB222 | Flat, addressable detector base | S54319-F1-A1 | 0.026 |
| FDBZ293 | Detector locking device | A5Q00005035 | 0.001 |
| FDBZ295 | Sealing element | S54319-F10-A1 | 0.062 |
| FDB291 | Base attachment | A5Q00001603 | 0.035 |
| FDBZ291 | Designation plate | A5Q00002621 | 0.002 |
| FDB293 | Base attachment humid | A5Q00003945 | 0.314 |
| – | M20 x 1.5 metal cable gland | A5Q00004478 | 0.036 |
| DBZ1193A | Designation plate | BPZ:4864330001 | 0.007 |
| DBZ1194 | Protective cage | BPZ:4677110001 | 0.138 |
| 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 |

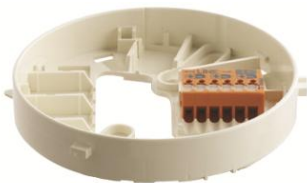### Addressable detector base FDB221 / FDB221-AA



Function:
- Detector base with stilts for fire detectors with addressable signal processing
- 'Orange' connection terminals, 0.2…1.5 mm$^2$ conductor cross-section
- FDB221-AA also contains micro terminal DBZ1190-AA

Use:
- For recess-mounted cable entry
- For surface-mounted cable entry up to a cable diameter of 6 mm

### Flat, addressable detector base FDB222



Function:
- Flat detector base for fire detectors with addressable signal processing
- 'Orange' connection terminals, 0.2…1.5 mm$^2$ conductor cross-section

Use:
- For flush mounting; only for recess-mounted cable entry

### Sealing element FDBZ295



Function:
- For improving the protection category. However, detectors can no longer be installed or removed using the detector exchanger.

Note: Cannot be used in conjunction with designation plate FDBZ291!

## Base attachment FDB291

**Function:**

- For routing surface-mounted cables larger than Ø 6 mm
- Detector base is secured with a snap fastener

## Designation plate FDBZ291

- For labeling with the location address
- Can only be used without detector base seal FDBZ295

## DBZ1190-AA micro terminal and DBZ1190-AB connection terminal

- Micro terminal DBZ1190-AA
  - Cable cross section up to max. 0.5 mm²
- Connection terminal DBZ1190-AB
  - Cable cross section up to max. 2.5 mm²
  - For connecting two external alarm indicators or the cable shielding

## Base attachment humid FDB293

- For achieving a higher protection category
- For mounting in wet or humid environments
- Required when using detector heating unit FDBH291
- Required when using protective cage DBZ1194 or EMC-protective cage FDBZ294
- Mounted between detector base and ceiling
- Detector base mounted quickly: The detector base simply clicks into place in base attachment humid FDB293.

## Designation plate DBZ1193A

- For labeling with the location address
- Can only be used with base attachment wet FDB295/BA721 or base attachment humid FDB293

## Protective cage DBZ1194

- To protect the alarm sounder from damage
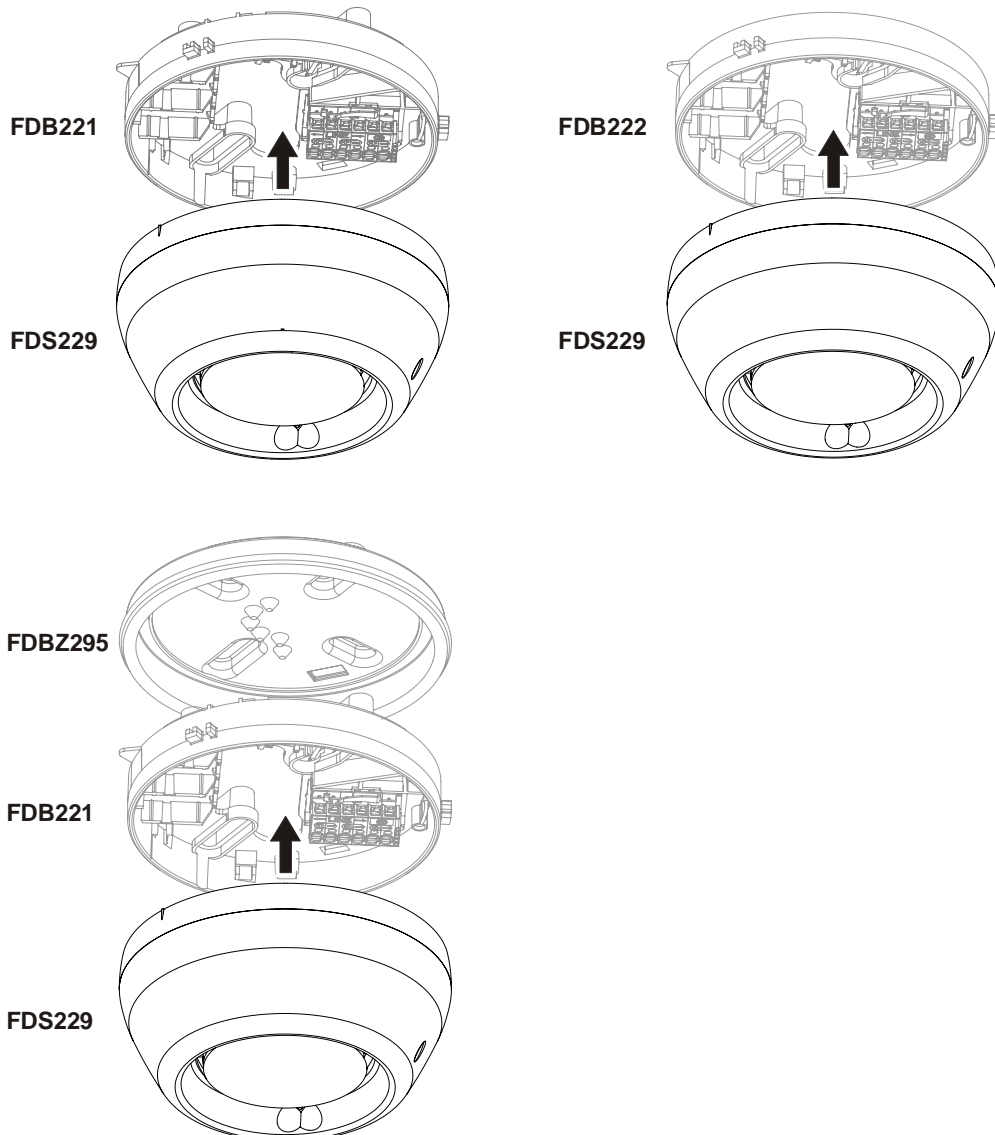- Can only be mounted in combination with the base attachment humid FDB293 or base attachment wet FDB295/BA721

| Document ID | Title |
|---|---|
| 007227 | Technical manual Detector exchanger and tester FDUD292 |
| 008331 | List of compatibility (for 'Sinteso™' product line) |
| 009718 | Technical Manual Intelligent detector tester FDUD293 |
| 010095 | Technical manual Alarm sounder with supplementary optical indication FDS229 |
| 010096 | Installation Alarm sounder beacon FDS229 |
| A6V10208532 | Installation Sealing element FDBZ295 |
| A6V10208546 | Installation Detector base FDB20x/FDB201-AA, FDB22x/FDB221-AA, Base attachment FDB291, Detector designation plate FDBZ291, Dummy detector FDX291 |
| A6V10208550 | Installation Base attachment humid FDB293 |
| A6V10208552 | Installation Detector locking device FDBZ293 |
| A6V10229261 | List of compatibility (for 'Cerberus™ PRO' product line) |
| A6V10331076 | Installation Base attachment wet FDB295, Detector designation plate DBZ1193A, Protective cage DBZ1194, EMC-protective cage FDBZ294 |
| A6V10882301 | List of compatibility (for 'FC360' product line) |

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

http://siemens.com/bt/download

### Mounting

- The alarm sounder FDS229 is inserted directly in the detector base and mounted on walls or ceilings.
- For recess-mounted feed lines
- Possible for surface-mounted feed lines with a cable diameter up to 6 mm with base FDB221; otherwise, use base attachment FDB291 or base attachment humid FDB293
- For higher protection category, use sealing element FDBZ295; for recess-mounted feed lines only

FDB221

FDS229

FDB222

FDS229

FDBZ295

FDB221

FDS229

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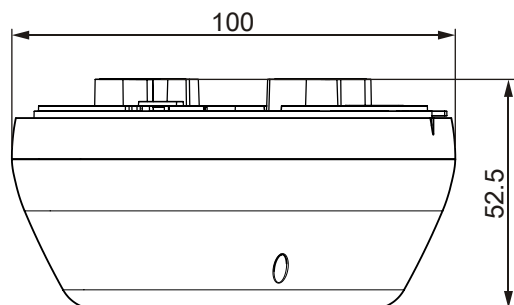
- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.
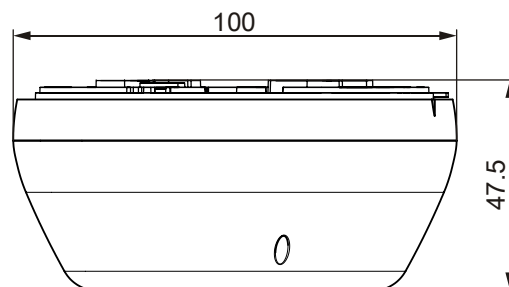
## Technical data

| | FDS229-R | FDS229-A |
|---|---|---|
| Operating voltage | DC 12…33 V | |
| Operating current<br>• Standby<br>• Sound activated<br>• Additional optical indicator activated<br>• Sound and indication activated | <br>250 µA<br>3.5 mA<br>3.5 mA<br>7.0 mA | |
| Sounds | 11<br>2 activation levels<br>3 sound levels | |
| Sound level | 80…99 dB(A) | |
| Number of beacon patterns | 1 (intermittent) | |
| Light intensity at DC 32 V,<br>depending on viewing angle -30°…+30° | 1.27…3.2 cd | 1.1…2.8 cd |
| External alarm indicator | 2 | |
| Operating temperature | -25…+65 °C | -25…+55 °C |
| Storage temperature | -30…+75 °C | |
| Air humidity | ≤95 % rel. | |
| Communication protocol | FDnet/C-NET | |
| Connection terminals | According to detector base | |
| Color | Transparent red | Transparent orange |
| EN 60529/IEC 60529 protection category: FDS229 with<br>• Base FDB221 or FDB222<br>• Base attachment FDB291<br>• Base FDB221 and sealing element FDBZ295<br>• Base attachment humid FDB293 | <br>Wall mounting with feed line<br>From below IP43, otherwise IP42<br>IP44<br>IP54 | |
| Standards | EN 54-3, EN 54-17 | |
| Approvals<br>• VdS<br>• LPCB<br>• DNV GL (marine) | <br>G207156<br>531p/03<br>MEDB00003UV | <br>G207156<br>531p/02<br>MEDB00003UV |
| C-NET, FDnet system compatibility | FS720, FS20, FC360 | |

FDS229 with FDB221

100

52.5

FDS229 with FDB222

100

47.5

FDS229 with FDB221 and FDBZ295

106.8

55