



FDM221, FDM223, FDM224

Sinteso™
Cerberus™ PRO

Manual call points



addressable (FDnet/C-NET)

- Manual call point for the addressable Sinteso FS20 and Cerberus PRO FS720 fire detection system
- Manual call point FDM221 with direct operation
- Manual call point FDM223 with indirect operation and FDM224 with direct operation
- Two-wire installation for all types of cable
- Communication via FDnet/C-NET (individual addressing)

Characteristics

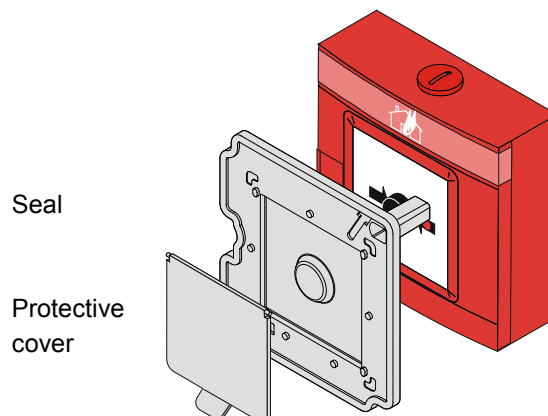
- **Environmental**
 - ecologically processing
 - recyclable materials
 - electronic and synthetic material simple separable
- **Characteristics**
 - protected electronic
 - Alarm indicator (LED) built-in
 - integrated line separator
 - two-colored LED for alarm and test

FDM221 Manual call point



- **Function**
 - direct alarm actuation by pushing in the glass plate
 - By replacing the glass plate the push button is set back and the device is ready for operation again.
 - An additional protective cover FDMC291 protects the manual call point from unintentional glass break.
- **Application**
 - for the immediate manual actuation of an alarm
 - for indoor and outdoor application
 - for surface- and recess-mounted feed lines in easily accessible places

FDM223, FDM224 Manual call points



- **Function FDM223**
 - indirect alarm actuation by smashing in the glass plate and pressing the push button
 - To replace the glass plate, open the housing door with the key, the push button must be set back before closing the door again.
 - A protective cover DMZ1197-AC (accessory) protects the manual call point from unintentional glass break.
 - A seal DMZ1197-AD (accessory) protects the manual call point in wet applications.

● **Function FDM224**

- Direct alarm actuation by smashing in the glass plate
- To replace the glass plate, open the housing door with the key, upon closing the door the button is reset

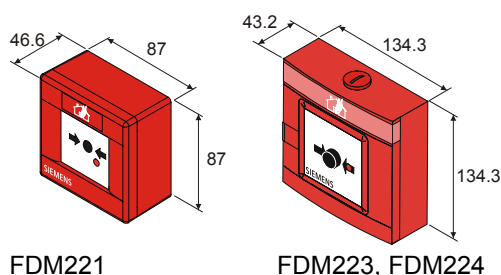
● **Application**

- for the immediate manual actuation of an alarm
- for indoor and outdoor application, equally suited for wet, humid and dusty areas
- for surface- and recess-mounted feed lines in easily accessible places

Installation




- For recess mounted feed lines, break out the break-out point in the housing bottom.
- For surface-mounted feed lines to the FDM221, a hole must be drilled into the top or bottom of the detector housing (marking), use at max. cable gland M20.
- For surface-mounted feed lines to the FDM223/224 the housing is equipped with opening sat the top and bottom, with sealing studs for M20 cable glands or locking plug.
- The switching unit can be placed immediately after connecting the feed line, which is an advantage with line test with a line-testing device.

Dimensions



Technical data

| | FDM221 | FDM223 / FDM224 |
|---|--|--|
| Operating voltage | DC 12...33 V | DC12...33 V |
| Operating current (quiescent) | 200 µA | 200 µA |
| Ext. Alarm indicator (AI) | – | 2 |
| Operating temperature | -25...+70 °C | -25...+70 °C |
| Storage temperature | -30...+75 °C | -30...+75 °C |
| Humidity (no condensation) | ≤95 % rel. | ≤95 % rel. |
| Protocol | FDnet/C-NET | FDnet/C-NET |
| Terminal block | 0.28...1.5 mm ² | 0.28...1.5 mm ² |
| Color | red, ~RAL 3000, blue, ~RAL 5005 yellow, ~RAL 1023, green, ~RAL 6024 | red, ~RAL 3000, blue, ~RAL 5005 yellow, ~RAL 1023, green, ~RAL 6024, orange, ~RAL 2011 |
| Protection category EN60 529 / IEC 60529 | IP44 | IP44 |
| – with seal DMZ1197-AD | – | IP64 |
| Standards | EN 54-11, EN 54-17 | EN 54-11, EN 54-17 |
| Approvals | | FDM223 FDM224 |
| – VdS | G203059 | G204002 G206123 |
| – LPCB | 531k/07 | 531k/08 531k/10 |
| System compatibility | | |
| – FDnet | FS20, AlgoRex, SIGMASYS | |
| – C-NET | FS720 | |

| | | |
|--|---------------|--|
| 07  0786 | FDM221 | Siemens Switzerland Ltd, Gubelstrasse 22 CH-6301 Zug, Switzerland Technical data: see doc. 007002 |
| FDM221 - Manual call point incl. short-circuit isolator for use in fire detection and fire alarm systems installed in buildings | | |
| 305/2011/EU (CPR): EN 54-11 (Typ A) / EN 54-17 ; 2004/108/EC (EMC): EN 50130-4 / EN 61000-6-3 ; | | |
| Declared performance and conformity can be seen in the Declaration of Performance and the EC Declaration of Conformity, which is obtainable via the Customer Support center: Tel. +49 89 9221-8000 or http://siemens.com/bt/download | | |
| DoP No.: 0786-CPR-20368; DoC No.: CED-FDM221 | | |
| 08  0786 | FDM223 | Siemens Switzerland Ltd, Gubelstrasse 22 CH-6301 Zug, Switzerland Technical data: see doc. 007002 |
| FDM223 - Manual call point incl. short-circuit isolator for use in fire detection and fire alarm systems installed in buildings | | |
| 305/2011/EU (CPR): EN 54-11 (Typ B) / EN 54-17 ; 2004/108/EC (EMC): EN 50130-4 / EN 61000-6-3 ; | | |
| Declared performance and conformity can be seen in the Declaration of Performance and the EC Declaration of Conformity, which is obtainable via the Customer Support center: Tel. +49 89 9221-8000 or http://siemens.com/bt/download | | |
| DoP No.: 0786-CPR-20443; DoC No.: CED-FDM223 | | |
| 07  0786 | FDM224 | Siemens Switzerland Ltd, Gubelstrasse 22 CH-6301 Zug, Switzerland Technical data: see doc. 007002 |
| FDM224 - Manual call point incl. short-circuit isolator for use in fire detection and fire alarm systems installed in buildings | | |
| 305/2011/EU (CPR): EN 54-11 (Typ A) / EN 54-17 ; 2004/108/EC (EMC): EN 50130-4 / EN 61000-6-3 ; | | |
| Declared performance and conformity can be seen in the Declaration of Performance and the EC Declaration of Conformity, which is obtainable via the Customer Support center: Tel. +49 89 9221-8000 or http://siemens.com/bt/download | | |
| DoP No.: 0786-CPR-20369; DoC No.: CED-FDM224 | | |

Details for ordering

| | Type | Part no | Designation | Weight |
|-----------------|------------|----------------|--|----------|
| FDM221 | FDMH291-R | A5Q00002217 | Housing red, with key | 0.099 kg |
| | FDMH291-Y | A5Q00004979 | Housing yellow, with key | 0.099 kg |
| | FDMH291-B | A5Q00004980 | Housing blue, with key | 0.099 kg |
| | FDMH291-G | A5Q00004981 | Housing green, with key | 0.099 kg |
| | FDME221 | A5Q00002451 | Switching unit | 0.061 kg |
| Accessories | FDMC291 | A5Q00001644 | Protective cover | 0.006 kg |
| | – | A5Q00004478 | Metal screwed cable gland M20 x 1.5 | 0.039 kg |
| | – | A5Q00004479 | Back nut M20 | 0.006 kg |
| Spare parts | FDMG291 | A5Q00002122 | Glass | 0.005 kg |
| | FDMK291 | A5Q00001643 | Cover with key | 0.035 kg |
| FDM223 complete | FDM223 | A5Q00008098 | Housing red, glass, key, switching unit, 2 locking plugs (2 holes), 2 labels standard with house and Feuerwehr/Brandmelder, red | 0.377 kg |
| FDM223 / FDM224 | FDMH293-R | A5Q00004023 | Housing red, with glass and key | 0.252 kg |
| | FDMH293-Y | A5Q00004908 | Housing yellow, with glass and key | 0.252 kg |
| | FDMH293-B | A5Q00004909 | Housing blue, with glass and key | 0.252 kg |
| | FDMH293-G | A5Q00004911 | Housing green, with glass and key | 0.252 kg |
| | FDMH293-O | S54311-F2-A1 | Housing orange, with glass and key | 0.252 kg |
| | FDME223 | A5Q00003087 | Switching unit for FDM223 | 0.106 kg |
| | FDME224 | A5Q00009392 | Switching unit for FDM224 | 0.067 kg |
| Accessories | DMZ1197-AC | BPZ:5223550001 | Protective cover | 0.015 kg |
| | DMZ1197-AD | BPZ:5470680001 | Seal for wet areas | 0.022 kg |
| | – | A5Q00004478 | Metal screwed cable gland M20 x 1.5 | 0.039 kg |
| | – | A5Q00006735 | Locking plug M20 x 1.5 (1 hole), red | 0.007 kg |
| | – | A5Q00010055 | Locking plug M20 x 1.5 (2 holes), red | 0.007 kg |
| Spare parts | DMZ1196-AC | BPZ:4942050001 | Glass | 0.014 kg |
| | DMZ1195 | BPZ:4851910001 | Key | 0.002 kg |

Details see equipment overview 008164, A6V10225323

Details about system compatibility see List of compatibility 008331

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