SIEMENS

FDM221, FDM223, FDM224

Manual call points

addressable (FDnet/C-NET)

Sinteso™
Cerberus™ PRO

CE

- **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)**

Building Technologies

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
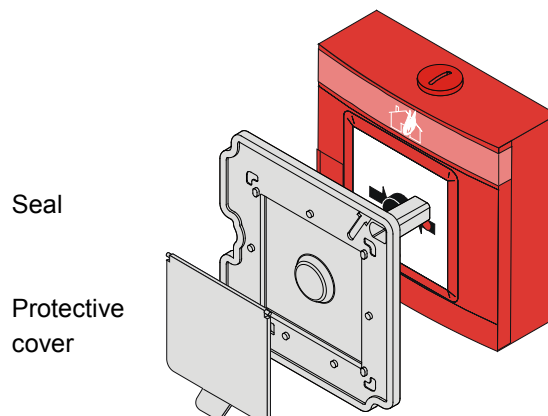
FDM221 Manual call point

Protective cover

- ● **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

Seal

Protective cover

- ● **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.

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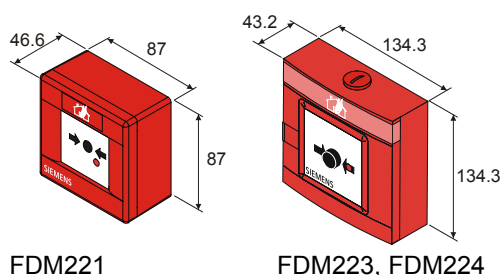- ● **Application**
- – for the immediate manual actuation of an alarm
- – for indoor and outdoor application, equally suited for wet, humid and dusty areas
- – for surface- and recess-mounted feed lines in easily accessible places

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

46.6 87

43.2 134.3

87

134.3

FDM221   FDM223, FDM224

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 CE 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 CE 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 CE 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