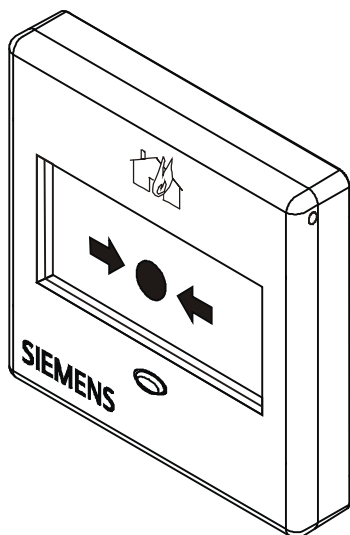


SIEMENS



FDM1101-Rx

Manual call point collective

Technical Manual

Imprint

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1 About this document

Goal and purpose

This document includes all information on the manual call points FDM1101-Rx. Following the instructions consistently will ensure that the product can be used safely and without any problems.

Target groups

The information in this document is intended for the following target groups:

Target group	Activity	Qualification
Product Manager	<ul style="list-style-type: none"> Is responsible for information passing between the manufacturer and regional company. Coordinates the flow of information between the individual groups of people involved in a project. 	<ul style="list-style-type: none"> Has obtained suitable specialist training for the function and for the products. Has attended the training courses for Product Managers.
Project Manager	<ul style="list-style-type: none"> Coordinates the deployment of all persons and resources involved in the project according to schedule. Provides the information required to run the project. 	<ul style="list-style-type: none"> Has obtained suitable specialist training for the function and for the products. Has attended the training courses for Project Managers.
Installation personnel	<ul style="list-style-type: none"> Assembles and installs the product components at the place of installation. Carries out a performance check following installation. 	<ul style="list-style-type: none"> Has received specialist training in the area of building installation technology or electrical installations.
Commissioning personnel	<ul style="list-style-type: none"> Configure the product at the place of installation according to customer-specific requirements. Check the product operability and release the product for use by the operator. Searches for and corrects malfunctions. 	<ul style="list-style-type: none"> Has obtained suitable specialist training for the function and for the products. Has attended the training courses for commissioning personnel.
Maintenance personnel	<ul style="list-style-type: none"> Carries out all maintenance work. Checks that the products are in perfect working order. Searches for and corrects malfunctions. 	<ul style="list-style-type: none"> Has obtained suitable specialist training for the function and for the products.

Source language and reference document

- The source/original language of this document is German (de).
- The reference version of this document is the international version in English. The international version is not localized.

Document identification

The document ID is structured as follows:

ID code	Examples
ID_ModificationIndex_Language_COUNTRY -- = multilingual or international	A6V10215123_a_de_DE A6V10215123_a_en_-- A6V10315123_a_--_--

Date format

The date format in the document corresponds to the recommendation of international standard ISO 8601 (format YYYY-MM-DD).

Conventions for text marking

Markups

Special markups are shown in this document as follows:

>	Requirement for a behavior instruction
1. 2.	Behavior instruction with at least two operation sequences
–	Version, option, or detailed information for a behavior instruction
⇒	Intermediate result of a behavior instruction
⇨	End result of a behavior instruction
•	Numbered lists and behavior instructions with an operation sequence
[→ X]	Reference to a page number
'Text'	Quotation, reproduced identically
<Key>	Identification of keys
>	Relation sign and for identification between steps in a sequence, e.g., 'Menu bar' > 'Help' > 'Help topics'
↑ Text	Identification of a glossary entry

Supplementary information and tips



The 'i' symbol identifies supplementary information and tips for an easier way of working.

1.1 Applicable documents

Document ID	Title
A6V10201154	Installation Manual call point FDM1101-Rx, FDM1101-Rx (F), FDM1101A-Rx
A6V10206486	Data sheet Manual call point FDM1101-Rx, FDM1101-Rx (F), FDM1101A-Rx
008331	List of compatibility (for 'Sinteso™' product line)

1.2 Download center

You can download various types of documents, such as data sheets, installation instructions, and license texts via the following Internet address:

<http://siemens.com/bt/download>

- Enter the document ID in the 'Find by keyword' input box.



You will also find information about search variants and links to mobile applications (apps) for various systems on the home page.

1.3 Technical terms and abbreviations

Term	Explanation
EOL	Line termination element (End Of Line)
Collective	Unaddressed detector line

1.4 History of changes

The reference document's version applies to all languages into which the reference document is translated.



The first edition of a language version or a country variant may, for example, be version 'd' instead of 'a' if the reference document is already this version.

The table below shows this document's revision history:

Version	Edition date	Brief description
d	2018-12-19	<ul style="list-style-type: none"> • Editorial adjustments
c	2017-10-31	<ul style="list-style-type: none"> • DBZ1190-AB: Conductor cross-section adapted (0.5...2.5 mm²)
b	2017-02-06	<ul style="list-style-type: none"> • 'Source language and reference document', 'Applicable documents', 'Download center', 'Conventions for text marking', 'Technical terms', and 'Revision history' sections added in 'About this document' chapter • 'Product version ES' and 'Details for ordering' sub-chapters added in 'Structure and function' chapter • VdS and LPCB approval details removed from 'Standards' section in 'Technical data' chapter • Editorial adjustments
a	2008-06-06	<ul style="list-style-type: none"> • First edition

2 Safety

2.1 Safety instructions

The safety notices must be observed in order to protect people and property.

The safety notices in this document contain the following elements:

- Symbol for danger
- Signal word
- Nature and origin of the danger
- Consequences if the danger occurs
- Measures or prohibitions for danger avoidance

Symbol for danger



This is the symbol for danger. It warns of **risks of injury**.
Follow all measures identified by this symbol to avoid injury or death.

Additional danger symbols

These symbols indicate general dangers, the type of danger or possible consequences, measures and prohibitions, examples of which are shown in the following table:



General danger



Explosive atmosphere



Voltage/electric shock



Laser light



Battery



Heat


Signal word

The signal word classifies the danger as defined in the following table:

Signal word	Danger level
DANGER	DANGER identifies a dangerous situation, which will result directly in death or serious injury if you do not avoid this situation.
WARNING	WARNING identifies a dangerous situation, which may result in death or serious injury if you do not avoid this situation.
CAUTION	CAUTION identifies a dangerous situation, which could result in slight to moderately serious injury if you do not avoid this situation.
<i>NOTICE</i>	<i>NOTICE</i> identifies possible damage to property that may result from non-observance.


How risk of injury is presented

Information about the risk of injury is shown as follows:

	<p>⚠ WARNING</p>
	<p>Nature and origin of the danger Consequences if the danger occurs</p> <ul style="list-style-type: none"> • Measures / prohibitions for danger avoidance

How possible damage to property is presented

Information about possible damage to property is shown as follows:




	<p><i>NOTICE</i></p>
	<p>Nature and origin of the danger Consequences if the danger occurs</p> <ul style="list-style-type: none"> • Measures / prohibitions for danger avoidance

2.2 Safety regulations for the method of operation

National standards, regulations and legislation

Siemens products are developed and produced in compliance with the relevant European and international safety standards. Should additional national or local safety standards or legislation concerning the planning, mounting, installation, operation or disposal of the product apply at the place of operation, then these must also be taken into account together with the safety regulations in the product documentation.

Electrical installations

	<p>⚠ WARNING</p>
	<p>Electrical voltage Electric shock</p> <ul style="list-style-type: none"> • Work on electrical installations may only be carried out by qualified electricians or by instructed persons working under the guidance and supervision of a qualified electrician, in accordance with the electrotechnical regulations.
<ul style="list-style-type: none"> • Wherever possible disconnect products from the power supply when carrying out commissioning, maintenance or repair work on them. • Lock volt-free areas to prevent them being switched back on again by mistake. • Label the connection terminals with external voltage using a 'DANGER External voltage' sign. • Route mains connections to products separately and fuse them with their own, clearly marked fuse. • Fit an easily accessible disconnecting device in accordance with IEC 60950-1 outside the installation. • Produce earthing as stated in local safety regulations. 	
	<p>⚠ CAUTION</p>
	<p>Noncompliance with the following safety regulations Risk of injury to persons and damage to property</p> <ul style="list-style-type: none"> • Compliance with the following regulations is required.
	<ul style="list-style-type: none"> • Specialist electrical engineering knowledge is required for installation. • Only an expert is permitted to carry out installation work. <p>Incorrect installation can take safety devices out of operation unbeknown to a layperson.</p>

Mounting, installation, commissioning and maintenance

- If you require tools such as a ladder, these must be safe and must be intended for the work in hand.
- When starting the fire control panel ensure that unstable conditions cannot arise.
- Ensure that all points listed in the 'Testing the product operability' section below are observed.
- You may only set controls to normal function when the product operability has been completely tested and the system has been handed over to the customer.

Testing the product operability

- Prevent the remote transmission from triggering erroneously.
- If testing building installations or activating devices from third-party companies, you must collaborate with the people appointed.
- The activation of fire control installations for test purposes must not cause injury to anyone or damage to the building installations. The following instructions must be observed:
 - Use the correct potential for activation; this is generally the potential of the building installation.
 - Only check controls up to the interface (relay with blocking option).
 - Make sure that only the controls to be tested are activated.
- Inform people before testing the alarm devices and allow for possible panic responses.
- Inform people about any noise or mist which may be produced.
- Before testing the remote transmission, inform the corresponding alarm and fault signal receiving stations.

Modifications to the system design and the products

Modifications to the system and to individual products may lead to faults, malfunctioning and safety risks. Written confirmation must be obtained from Siemens and the corresponding safety bodies for modifications or additions.

Modules and spare parts

- Components and spare parts must comply with the technical specifications defined by Siemens. Only use products specified or recommended by Siemens.
- Only use fuses with the specified fuse characteristics.
- Wrong battery types and improper battery changing lead to a risk of explosion. Only use the same battery type or an equivalent battery type recommended by Siemens.
- Batteries must be disposed of in an environmentally friendly manner. Observe national guidelines and regulations.

Disregard of the safety regulations

Before they are delivered, Siemens products are tested to ensure they function correctly when used properly. Siemens disclaims all liability for damage or injuries caused by the incorrect application of the instructions or the disregard of danger warnings contained in the documentation. This applies in particular to the following damage:


- Personal injuries or damage to property caused by improper use and incorrect application
- Personal injuries or damage to property caused by disregarding safety instructions in the documentation or on the product
- Personal injury or damage to property caused by poor maintenance or lack of maintenance


2.3 Standards and directives complied with

A list of the standards and directives complied with is available from your Siemens contact.

2.4 Release Notes

Limitations to the configuration or use of devices in a fire detection installation with a particular firmware version are possible.

	⚠ WARNING
	<p>Limited or non-existent fire detection</p> <p>Personal injury and damage to property in the event of a fire.</p> <ul style="list-style-type: none"> • Read the 'Release Notes' before you plan and/or configure a fire detection installation. • Read the 'Release Notes' before you carry out a firmware update to a fire detection installation.

	NOTICE
	<p>Incorrect planning and/or configuration</p> <p>Important standards and specifications are not satisfied. Fire detection installation is not accepted for commissioning. Additional expense resulting from necessary new planning and/or configuration.</p> <ul style="list-style-type: none"> • Read the 'Release Notes' before you plan and/or configure a fire detection installation. • Read the 'Release Notes' before you carry out a firmware update to a fire detection installation.

3 Structure and function

3.1 Overview

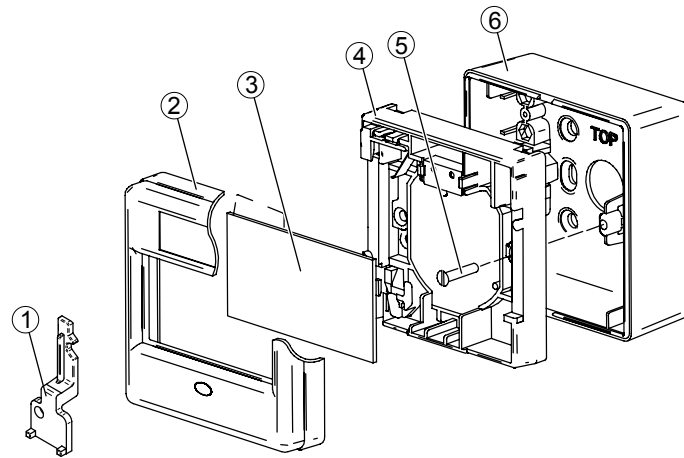


Figure 1: Overview of FDM1101-Rx

- | | |
|----------------------------------|---|
| 1 Key FDMK295 | 4 Switching unit |
| 2 Cover cap | 5 Supplied screws |
| 3 Plastic insert or glass insert | 6 Accessories:
Back box FDMH295-R or
back box FDMH295-S |

The manual call points FDM1101-Rx are for manually activating alarms in the case of fire. They consist of a cover cap and a switching unit. Two back boxes are available as options for surface-mounted feed lines. Back box FDMH295-R does not have pre-drilled holes for surface-mounted feed lines. Back box FDMH295-S has two holes and grommets on its top and can be used for surface-mounted feed lines with a cable diameter of 5 mm.

The activation button can either be actuated using a resettable plastic insert or a breakable glass insert.

A protective cover can be optionally used to prevent unintentional alarm activation.

The manual call points have the following characteristics:

- Indication of the alarm status via LED
- Communication: Collective protocol

3.1.1 Product version ES

The product version ES provides the technical status of a device in terms of software and hardware. The product version is provided as a two-digit number.

You will find the details of your device's product version:

- On the packaging label
- On the product label or the type plate

Product version on the packaging label

Details of the product version can be found directly on the packaging label in the barcode:

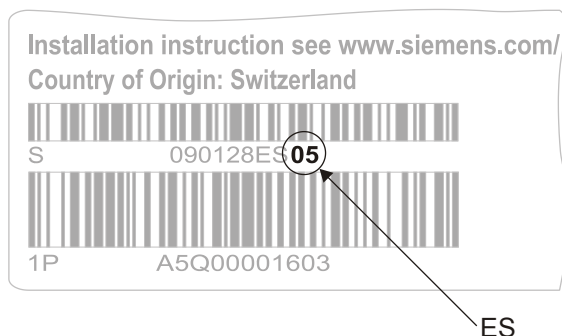


Figure 2: Example of a packaging label with details of the product version

Product version on the product label and the type plate

Details of the product version can be found after the device order number:

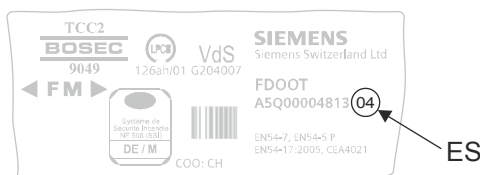


Figure 3: Example of a product label with details of the product version



Depending on the product and various approvals, the product labels may differ in terms of the information type and layout.

Look for your device's order number on the product label.

You will find the product version after the order number.

3.1.2 Details for ordering

The manual call points can be ordered in the following versions:

Type	Order number	Designation
FDM1101-RP	S54371-F6-A2	Collective manual call point with plastic insert
FDM1101-RG	S54371-F6-A1	Collective manual call point with glass insert
FDM1101-RP (F)	S54371-F6-A6	Collective manual call point with plastic insert for 'France'
FDM1101-RG (F)	S54371-F6-A5	Collective manual call point with glass insert for 'France'

3.2 Setup

3.2.1 Connections

The back of the manual call points FDM1101-Rx is fitted with 4 terminals for the detector line. At the end of the collective detector line, a control-panel-specific end-of-line element (EOL) must be connected to the terminals.

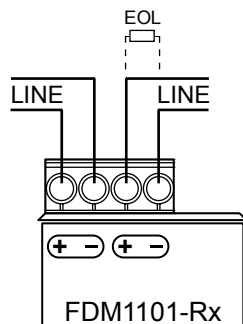


Figure 4: Connection diagram for FDM1101-Rx

EOL Line termination element (End Of Line)

3.2.2 Indication elements

The manual call points FDM1101-Rx have a red LED. Only the optical fiber can be seen from the outside.

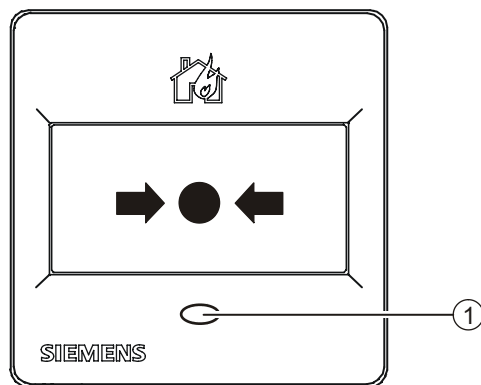


Figure 5: LED in manual call point FDM1101-Rx

1 Red LED for 'Alarm'

LED red	Meaning
Off	Normal operation
Flashes light in intervals of 1 s, or is permanently on (depending on the control panel)	'Alarm'

3.3 Function

3.3.1 Danger levels

The manual call point can transmit the following danger levels to the control panel:

Danger level	Meaning
0	Normal state, no danger
3	Alarm


The evaluation of the danger level and the resulting measures (e.g. activation of remote transmission) are configured on the control panel.

3.3.2 Test mode

The manual call points can also be tested with the key.

A test mode must be set on the control panel to test the manual call points. When in test mode, alarms from the manual call points are not forwarded by the control panel.

See also

 Testing detector with the key [→ 27]

3.4 Accessories

3.4.1 Key

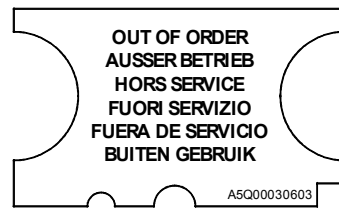
A key is enclosed in the delivery of each manual call point.

See also

📄 Key FDMK295 [→ 19]

3.4.2 'NOT IN USE' label

A 'NOT IN USE' label is enclosed in the delivery of each manual call point.



- Warning label for manual call points that are not in use
- In different languages
- Compatible with
 - manual call points FDM1101-Rx / FDM1101A-Rx / FDM225 / FDM226

3.4.3 Plastic insert

A plastic insert 'UK' FDMP295 is enclosed in the delivery of each manual call point FDM1101-RP.

A plastic insert 'France' FDMP295-F is enclosed in the delivery of each manual call point FDM1101-RP (F).

See also

📄 Plastic inserts FDMP295-x [→ 19]

3.4.4 Glass insert

A glass insert 'UK' FDMG295 is enclosed in the delivery of each manual call point FDM1101-RG.

A glass insert 'France' FDMG295-F is enclosed in the delivery of each manual call point FDM1101-RG (F).

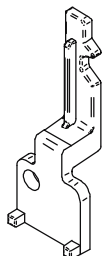
See also

📄 Glass inserts FDMG295-x [→ 20]

3.4.5 Optional accessories

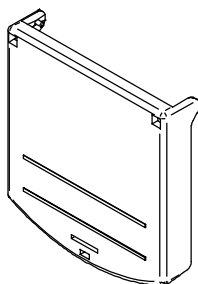
This chapter lists all spare parts with their ordering numbers, in addition to the optional accessories. Detailed information on the accessories enclosed in the delivery can also be found here.

3.4.5.1 Key FDMK295



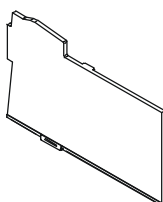
- For testing and resetting manual call points
- For removing the housing cover from the back box
- Compatible with:
 - Manual call point FDM1101-Rx
 - Manual call point FDM1101A-Rx
 - Manual call point FDM225-Rx
 - Manual call point FDM226-Rx
 - Radio manual call point FDM275
- Order number: A5Q00013448

3.4.5.2 Protective cover FDMC295



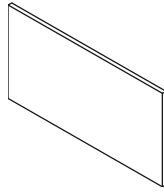
- For protection against unintended alarm activation
- Compatible with:
 - Manual call point FDM1101-Rx
 - Manual call point FDM1101A-Rx
 - Manual call point FDM225-Rx
 - Manual call point FDM226-Rx
 - Radio manual call point FDM275
- Order number: A5Q00013440

3.4.5.3 Plastic inserts FDMP295-x



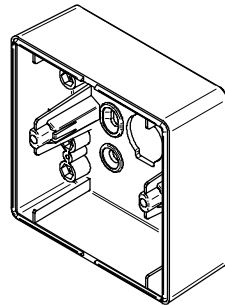
- For alarm activation and protection against soiling
- Available in country-specific designs
- Compatible with:
 - Manual call point FDM1101-Rx
 - Manual call point FDM1101A-Rx
 - Manual call point FDM225-Rx
 - Manual call point FDM226-Rx
 - Radio manual call point FDM275
- Order number for plastic insert FDMP295, 'Neutral': A5Q00013445
- Order number for plastic insert FDMP295-F, 'France': A5Q00013446

3.4.5.4 Glass inserts FDMG295-x



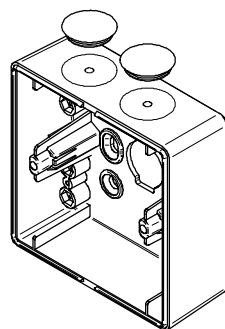
- For alarm activation and protection against soiling
- Available in country-specific designs
- Compatible with:
 - Manual call point FDM1101-Rx
 - Manual call point FDM1101A-Rx
 - Manual call point FDM225-Rx
 - Manual call point FDM226-Rx
 - Radio manual call point FDM275
- Order number for glass insert FDMG295, 'Neutral': A5Q00013442
- Order number for glass insert FDMG295-F, 'France': A5Q00013443

3.4.5.5 Back box FDMH295-R



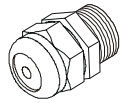
- For using manual call points with surface-mounted cable entry
- No pre-drilled holes for the feed lines
- Color: Red
- Compatible with:
 - Manual call point FDM1101-Rx
 - Manual call point FDM1101A-Rx
 - Manual call point FDM225-Rx
- Order number: A5Q00013437

3.4.5.6 Back box FDMH295-S



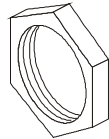
- For using manual call points with surface-mounted cable entry
- With two openings and grommets on the top
- Grommets for cable with a diameter of max. 5 mm
- Color: Red
- Compatible with:
 - Manual call point FDM1101-Rx
 - Manual call point FDM1101A-Rx
 - Manual call point FDM225-Rx
- Order number: A5Q00013438

3.4.5.7 Metal cable gland M20 x 1.5



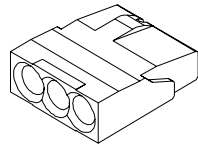
- Compatible with back boxes
- Order number (10 pcs. per pack): A5Q00004478

3.4.5.8 M20 x 1.5 metal counter nut



- For use with metal cable gland M20 x 1.5
- Order number: A5Q00004479

3.4.5.9 Connection terminal DBZ1190-AB



- 3 poles
- For conductor cross-sections of 0.5...2.5 mm²
- To connect the cable shieldings
- Order number (50 pcs. per pack): 4942340001

4 Project engineering

4.1 Compatibility

Compatible with all fire detection systems with collective/SynoLINE600 signal processing. Refer to 'List of compatibility' (doc. no. 008331) for details.

4.2 Ranges of application

The manual call points are intended for use in places where a fire can be detected by people who can manually trigger an alarm.

4.3 Installation site

The manual call points must be mounted in easily accessible places at a height of 1.3...1.6 m.



Observe the country-specific regulations for the exact mounting height!

4.4 Environmental influences

If the devices are used in industrial applications, consultation with the project manager is required, since plastics do not withstand certain environmental conditions.

The following factors must be taken into consideration:

- Chemicals
- Temperature
- Moisture

5 Mounting / Installation

Preparation

If using back box FDMH295-R, you have to determine the positions of the lead-in openings. If the lead-in openings are on the top or bottom, you must determine them with the drilling jig (product insert).

Procedure

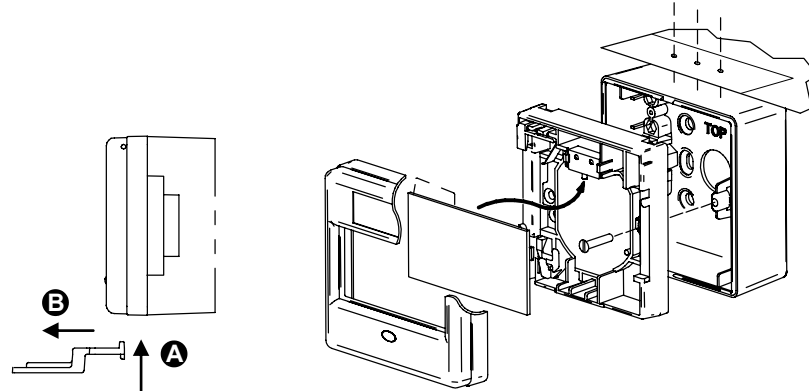


Figure 6: Mounting



Note the positive and negative poles!

1. Mount the back box at a height of 1.3...1.6 m on a flat surface.
2. If the detector line cables are shielded, connect the shieldings to a connection terminal (to be ordered separately). The shielding must not touch any other potentials or metal parts in the device.
3. Connect the detector line. Only connect one wire per terminal.
4. Insert an end-of-line element (EOL) at the end of each collective detector line into the terminals. The end-of-line element is specific to the control panel.
5. Remove the cover cap of the manual call point using the key (movements A and B). Keep the key in a safe place.
6. Secure the switching unit to the wall or back box. You will find the screws you need for the back box in the switching unit.
7. Assemble the manual call point. Be sure to tension the spring with the plastic insert or glass insert.

**⚠ WARNING**

Deactivating the manual call points prevents alarms from being forwarded.
The alarm is not triggered.

- Deactivated manual call points must be labeled with the 'NOT IN USE' notice!

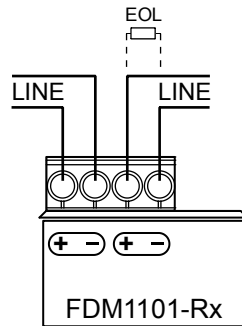


Figure 7: Detector line connection diagram

EOL Line termination element (End Of Line)

5.1 Installation

Notes on work on electrical installations



- Specialist electrical engineering knowledge is required for installation.
 - Only an expert is permitted to carry out installation work.
- Incorrect installation can take safety devices out of operation unbeknown to a layperson.



⚠ CAUTION

Electrical voltage on lines

Risk of injury due to electric shock

- During mounting and installation work, electrical voltage must not be applied to the lines.



Note the positive and negative poles.

Only connect one wire per terminal. This is the only way to ensure the connection is failure-free for the entire service life of the device.

6 Commissioning

The collective detector line is commissioned on the control panel. The exact procedure is described in the control panel documentation.

7 Maintenance / Repair

7.1 Performance check

The devices are automatically subjected to a performance check during the self-test. Nevertheless, it is necessary to check the devices on site at regular intervals.


Recommendation:

- Check the devices every year.
- Replace heavily soiled or damaged devices.

No other special maintenance work is necessary.

You will find more detailed information in the fire detection system documentation.

7.2 Testing detector with the key

	NOTICE
	<p>False alarm Switch the manual call point to 'Test' on the control panel.</p>

Procedure

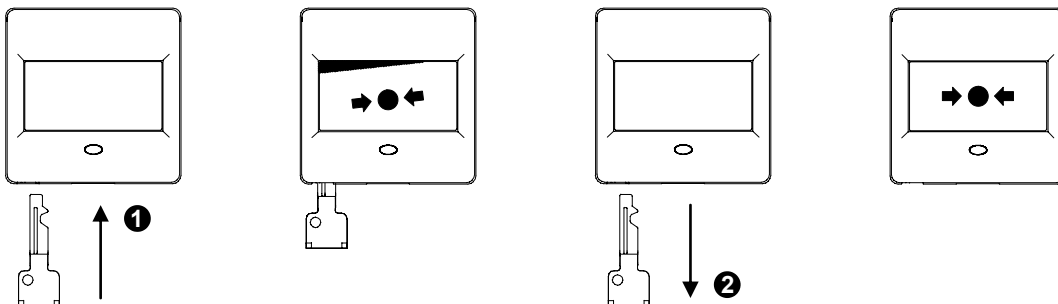



Figure 8: Testing

1. Insert the key into the manual call point until the switching unit moves.
⇒ The detector is triggered.
2. To arm the manual call point, pull out the key again.
⇒ The insert is straight and the manual call point has been armed.

	WARNING
	<p>Deactivating the manual call points prevents alarms from being forwarded. The alarm is not triggered.</p> <ul style="list-style-type: none"> • Deactivated manual call points must be labeled with the 'NOT IN USE' notice!

7.3 Replacing the glass insert

The glass insert is covered by a foil. This foil holds the glass splinters together when the glass insert is pushed in, making it possible to remove the glass insert easily.

Procedure

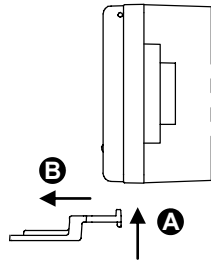


Figure 9: Removing the cover cap

1. Remove the cover cap of the manual call point using the key (movements A and B).
2. Remove the broken glass insert from the switching unit.
3. Insert a new glass insert. Be sure to tension the spring with the glass insert.
4. Refit the cover cap.

7.4 Spare parts

You will find spare parts in the 'Optional accessories' chapter.

See also

📄 [Optional accessories \[→ 19\]](#)

8 Specifications

8.1 Technical data

Detector line	Operating voltage	DC 16...26 V
	Quiescent current	0.01 mA
	Alarm current (permanent, maximum)	60 mA
	Alarm current (pulsating)	100 mA
	Maximum current connection factor	1
	Quiescent current connection factor	1
	Protocol	Collective (SynoLINE600)
	Compatibility	Refer to document 'List of compatibility'; doc. no. 008331
Connections	Detector line:	
	• Design	Screw terminals
	• Cable cross section	0.28...1.5 mm ²
Ambient conditions	Operating temperature	-25...+70 °C
	Storage temperature	-30...+75 °C
	Air humidity	≤95 % rel.
	Protection category (IEC60529)	IP44
	Electromagnetic compatibility at:	
	• 10 MHz...1 GHz	50 V/m
	• 1 GHz...2 GHz	10 V/m
Mechanical data	Dimensions (L x W x H):	
	• FDM1101-Rx	87 x 87 x 20 mm
	• FDM1101-Rx with back box FDMH295-R / FDMH295-S	87 x 87 x 53 mm
	Weight:	
	• FDM1101-Rx	0.097 kg
	• Back box FDMH295-R / FDMH295-S	0.057 kg
	Colors:	
	• FDM1101-Rx	Red (RAL 3000)
	• Back box FDMH295-R / FDMH295-S	Red (RAL 3000)
	Material	ABS PC ASA
Standards	European standards	EN 54-11 EN 50130-4

8.2 Dimensions

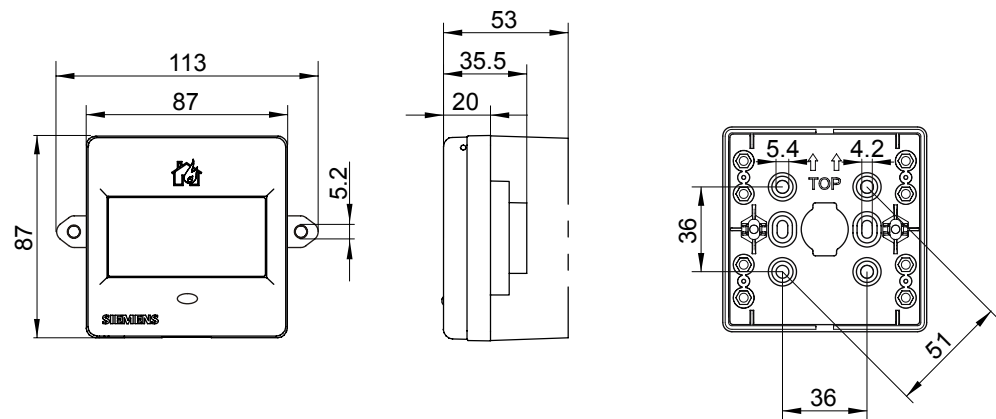
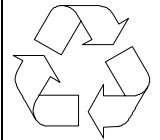



Figure 10: Dimensional drawings for FDM1101-Rx and back box FDMH295-R / FDMH295-S

8.3 Environmental compatibility and disposal

	<p>This equipment is manufactured using materials and procedures which comply with current environmental protection standards as best as possible. More specifically, the following measures have been undertaken:</p> <ul style="list-style-type: none"> • Use of reusable materials • Use of halogen-free plastics • Electronic parts and synthetic materials can be separated <p>Larger plastic parts are labeled according to ISO 11469 and ISO 1043. The plastics can be separated and recycled on this basis.</p>
	<p>The device is considered an electronic device for disposal in accordance with the European Guidelines and may not be disposed of as domestic garbage.</p> <ul style="list-style-type: none"> • Dispose of the device through channels provided for this purpose. • Comply with all local and currently applicable laws and regulations.



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