SIEMENS

Cerberus™ FIT

# Input module, input/output module

FDCI361, FDCIO361

**Input module and input/output module for the automatically addressed detector line C-NET**

- Input module FDCI361:
  - Monitorable contact input for reporting technical statuses or activating an alarm
- Input/output module FDCIO361:
  - Control output with potential-free relay contact for activation of alarming devices, fans, air conditioning systems, lift controls, etc.
  - Monitorable contact input for reporting technical statuses or activating an alarm
  - Use as a monitored output with a separate power supply, e.g., for operating acoustic signal transmitters
- LED indicator for input/output statuses and for fault, test, localization
- Power supply and communication via C-NET (addressed individually)
- Address automatically issued during commissioning
- Two-wire installation for all cable types

**Note**

- This device is functional exclusively together with a Cerberus FIT fire control panel FC360.
- Specialist electrical engineering knowledge is required for installation.
- Only an expert is permitted to carry out installation work.

## Properties

**Features**

- Transparent housing, ensuring that indicators are easy to see
- Protected electronics
- Integrated line separator
- Chronological status monitoring
- Supply via C-NET, auxiliary supply only required if the output is configured as monitored (FDCIO361)
- Microprocessor-controlled signal processing
- Different mounting options
- For dry areas
- In humid environments, use additional housing FDCH221

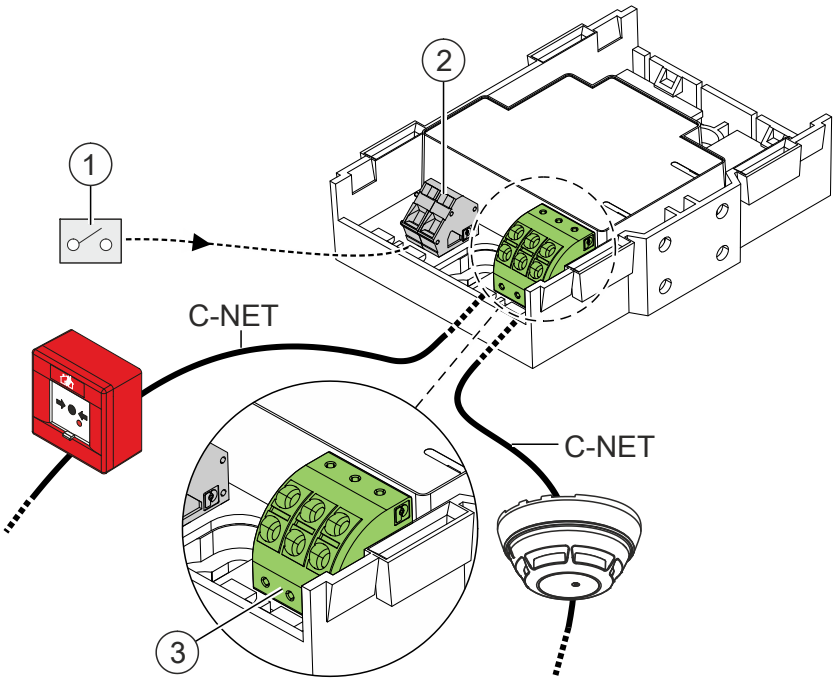
**Eco-friendly**

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

## Functions

**FDCI361 input module**

- Input for potential-free detector contact
- Monitoring the input line for open line and short-circuit with terminating resistors
- The input for status or alarm messages can be configured using the fire control panel.
- Status indicator by means of LED
- Fields of application:
  - To activate a potential-free normally open contact for reporting technical statuses (e.g., door or fan control) or alarm activation (e.g., sprinkler alarm)

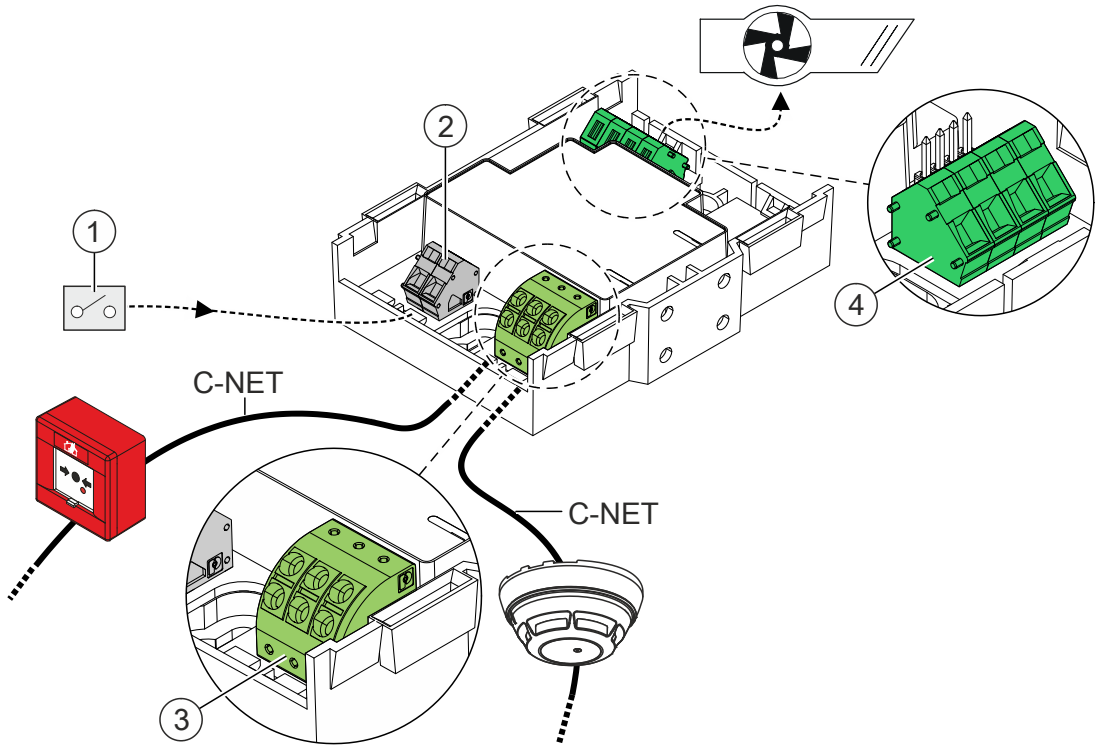



| | | | |
|---|---|---|---|
| 1 | Potential-free detector contact | 3 | Connections for the detector line |
| 2 | Connections for the input | | |

**FDCIO361 input/output module**

- Input for potential-free detector contact
- Monitoring the input line for open line and short-circuit with terminating resistors

- The input for status or alarm messages can be configured using the fire control panel.
- Output which can be configured via jumper:
  - Not monitorable: Potential-free relay contact (AC 22 V, 2 A or DC 30 V, 2 A)
  - Monitorable: Relay contact (DC 30 V, 2 A)
- Status indicator by means of LED
- Fields of application:
  - To activate a potential-free normally open contact for reporting technical statuses (e.g., fan control) or alarm activation (e.g., sprinkler alarm)
  - For decentralized activation of alarming devices, fans, air conditioning systems, lift controls, etc.




| | | | |
|---|---|---|---|
| 1 | Potential-free detector contact | 3 | Connections for the detector line |
| 2 | Connections for the input | 4 | Connections for the output |

## Type Overview

| Type | Designation | Order number | Weight [kg] |
|---|---|---|---|
| FDCI361 | Input module incl. 2 resistors, 2 mounting feet | S54312-F101-A1 | 0.060 |
| FDCIO361 | Input/output module incl. 2 resistors, 2 mounting feet | S54312-F102-A1 | 0.066 |

### Accessories for input module FDCI361, input/output module FDCIO361

| Type | Designation | Order number | Weight [kg] |
|---|---|---|---|
| FDCH221 | Housing with cover, seal, and screws | S54312-F3-A1 | 0.282 |
| – | Metal cable gland M20 x 1.5 | A5Q00004478 | 0.036 |
| – | M20 metal counter nut | A5Q00004479 | 0.006 |
| DBZ1190-AB | 0.5…2.5 $mm^2$ (3-pin) connection terminal | BPZ:4942340001 | 0.001 |

### Replacement parts for input module FDCI361, input/output module FDCIO361

| Type | Designation | Order number | Weight [kg] |
|---|---|---|---|
| FDCM291 | Mounting foot | A5Q00003855 | 0.001 |

## Product documentation

| Document ID | Name |
|---|---|
| A6V10882301 | List of compatibility (for 'FC360' product line) |
| A6V11712780 | Technical manual for input module FDCI361, input/output module FDCIO361 |
| A6V11712824 | Mounting of input module FDCI361, input/output module FDCIO361, housing FDCH221 |

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

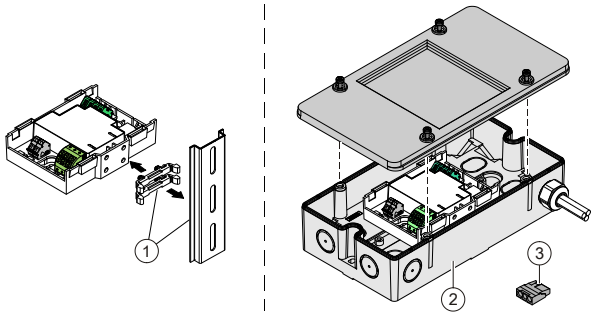
https://siemens.com/bt/download

## Notes

### Mounting

**Mounting options**

- Directly on the mounting surface
- Series mounting on a U-rail TS35
- Surface-mounted or recess-mounted cable entry
- In housing FDCH221 (accessory) with cover, seal, and screws for wet areas




1 Series mounting using mounting feet supplied, on U-rail TS35

2 Mounting in housing FDCH221 (accessory)

3 Use auxiliary terminals DBZ1190-AB for shielded cables

### 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.

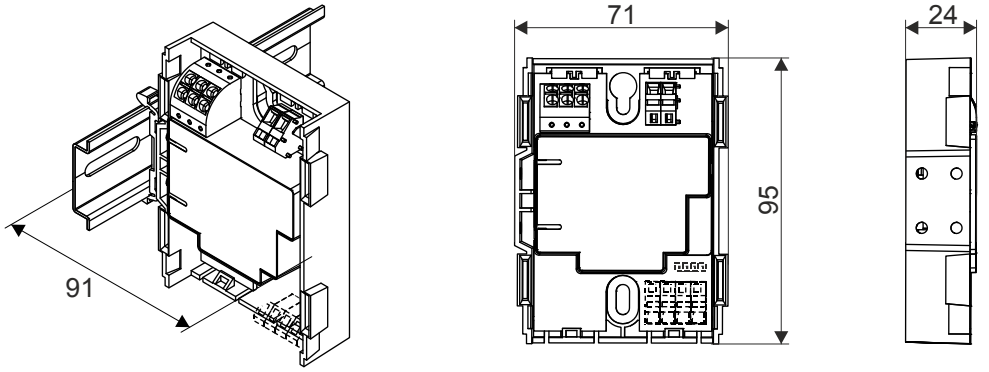
- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

## Technical data

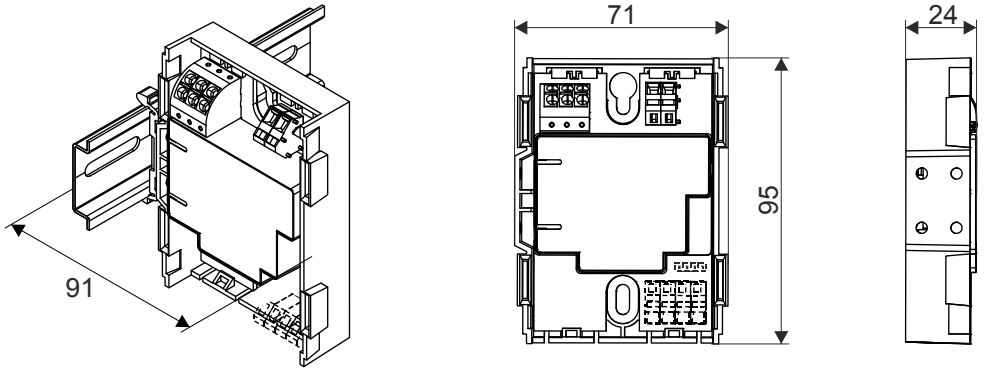
| | FDCI361 | FDCIO361 |
|---|---|---|
| Operating voltage | DC 12…33 V | |
| Operating current (quiescent) | Max. 0.3 mA | Max. 0.4 mA |
| Relay output (ohmic) | - | AC 22 V, 2 A, max. 44 VA<br>DC 30 V, 2 A, max. 60 W |
| Line resistance (input) | Max. 20 Ω | |
| Operating temperature | -25…+70 °C | |
| Storage temperature | -30…+75 °C | |
| Air humidity, non-condensing | ≤95 % rel. | |
| Communication protocol | C-NET | |
| Connection terminals | 0.2…2.5 mm² | |
| Color<br>● Housing<br>● Cover<br>● Housing FDCH221 | <br>~RAL 9010, pure white<br>Transparent matt<br>~RAL 9010, pure white | |
| Protection category (IEC 60529)<br>● When mounted on a U-rail in a fire control panel<br>● With housing FDCH221 | <br>IP30<br>IP65 | |
| Standards | EN 54-17, EN 54-18 | |
| Approvals<br>● LPCB | <br>531h/03 | <br>531h/04 |
| C-NET system compatibility | FC360 | |

## Dimensional drawings

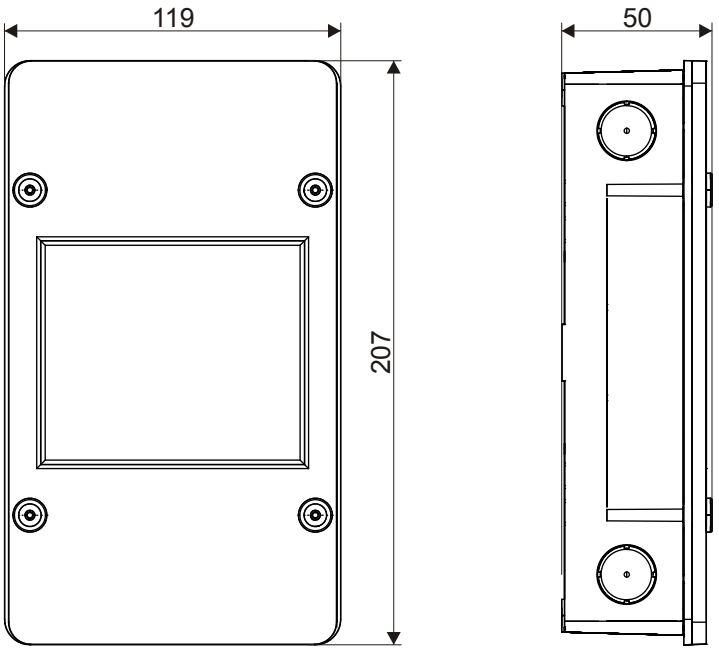
### Input module FDCI361




### Input/output module FDCIO361




### Housing FDCH221



Issued by
Siemens Switzerland Ltd
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www.siemens.com/buildingtechnologies

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Document ID A6V11712820_de--_b
Edition 2021-02-05