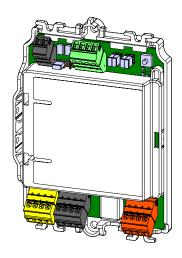


Sinteso™/ Cerberus™ PRO

Input/Output Module (Transponder)

FDCIO223 ES ≥50



An input/output module (transponder) addressed for the FDnet and C-NET detector lines

- Two monitored inputs/outputs, which can optionally be used as follows:
 - Collective detector line/conventional detector line
 - Contact input
 - Control output
 - Control output with confirmation
- LED indicator for input/output statuses, fault, test, etc.
- DC 24 V control output for equipment, max. 2x 1 A or 1x 1.5 A
- Internal fuses for the outputs that can be bridged, 2x 0.7 AT
- Two-wire installation for all cable types
- Pluggable connection terminals
- DC 24 V external power supply (detector lines electrically isolated)
- Microprocessor-controlled signal processing
- Communication via FDnet/C-NET (addressed individually)

Eco-friendly

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

Features

- Transparent housing, ensuring that LED indicators are easy to see
- Protected electronics
- Integrated line separator
- Easy mounting using snap fastener on U-rails TS35 in fire control panels
- Can be used in dry areas
- Housing FDCH221 can be used in dusty and humid environments.

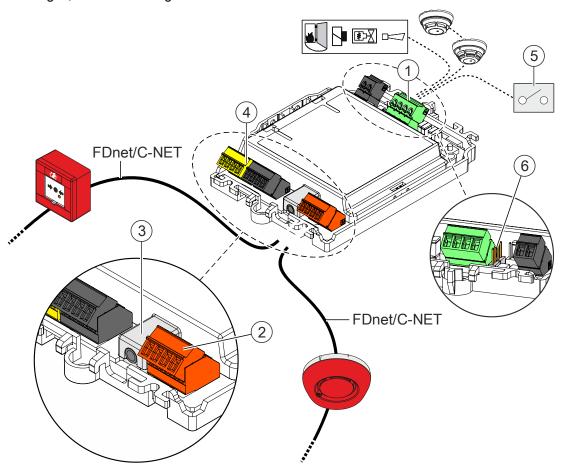


You can request the data sheet, mounting instructions, and technical manual for FDCIO223 with a product version ES <50 via the Customer Support Center (CSC). Contact the CSC by phone on +49 89 9221-8000.

The input/output module (transponder) FDCIO223 has the following application areas:

- Connection of collective fire detectors. If safety barrier SB3 is used, intrinsically safe collective fire detectors can be connected in potentially explosive atmospheres
- Connection of conventional fire detectors
- Monitored control of equipment such as smoke dampers, alarm devices, and door magnets

The input/output module (transponder) has a monitored signal input for status or alarm messages, or for confirming technical statuses.



- 1 Connections for input/output, collective/conventional detector line (2x)
- 2 Connection for the FDnet/C-NET detector line
- 3 Connection for the detector exchanger and tester (MC link)
- 4 External supply DC 24 V
- Contact input
- 6 Jumper for internal fuses max. 0.7 AT



NOTICE

Country-specific safety regulations

Failure to observe country-specific safety regulations can cause injury to persons and damage to property.

 Observe country-specific regulations and comply with the corresponding safety directives.

Functions

The two inputs/outputs can be configured independently of one another as follows:

- Collective detector line and conventional detector line
- Contact input
- Control output
- Control output and input as confirmation with selectable monitoring window

The inputs/outputs are monitored as follows:

- Detector line set to quiet, alarm, open line, short-circuit, fault, and ground fault
- Contact input set to quiet, activated, open line, short-circuit, fault (terminating resistor), and ground fault
- · Control output set to quiet, open line, short-circuit, and ground fault

The status is indicated by means of LED.

Control output with selectable equipment monitoring, either identical polarity or reverse polarity (e.g., alarm devices)

Type Overview

Туре	Designation	Order no.	Weight [kg]
FDCIO223 (ES ≥50)	Input/output module (transponder) incl. 2 20 V Transzorb diodes, 4 sets of terminating resistors, 2 mounting feet, 2 jumpers	S24218-B102-A1	0.126

Accessories for the input/output module (transponder) FDCIO223

Туре	Designation	Order no.	Weight [kg]
FDCH221	Housing with cover, seal, and screws	S54312-F3-A1	0.282
- M20 x 1.5 metal cable gland A5Q00004478		A5Q00004478	0.036
_	M20 metal counter nut	A5Q00004479	0.006
DBZ1190-AB	0.52.5 mm² (3-pin) connection terminal	BPZ:4942340001	0.001
TS35 (L = 122 mm) TS35 (L = 288 mm)	U-rail TS35/7.5/122 U-rail TS35/7.5/288	BPZ:5644780001 BPZ:5644230001	0.041 0.098

Replacement material for the input/output module (transponder) FDCIO223

Туре	Designation	Order no.	Weight [kg]
FDCM291	Mounting foot	A5Q00003855	0.001

Product documentation

Document ID	Name	
008164	Equipment overview Sinteso™ Detector system FD20	
008331	List of compatibility (for 'Sinteso™' product line)	
A6V10229261	List of compatibility (for 'Cerberus™ PRO' product line)	
009122	Technical manual Input/output module (transponder) FDCIO223	
009124	Installation Input/output module (Transponder) FDCIO223, Housing FDCH221	
001204	Principles, applications, installation, maintenance Fire alarm signal in areas at risk of explosion	



You can request the data sheet, mounting instructions, and technical manual for FDCIO223 with a product version ES <50 via the Customer Support Center (CSC).

Contact the CSC by phone on +49 89 9221-8000.

You will find information on how to ascertain the product version of your device in chapter 'Product version ES' of the technical manual.

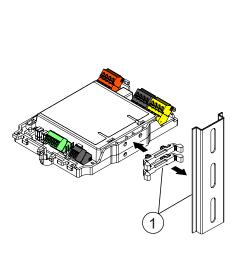
Related documents such as environmental declarations, CE declarations, etc., can be downloaded at the following Internet address:

https://siemens.com/bt/download

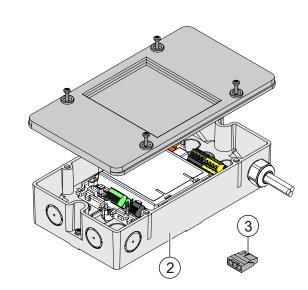
Mounting

Mounting options

- Mounting (series mounting) in a fire control panel on a U-rail TS35
- In housing FDCH221 (accessory) with cover, seal, and screws



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



- 2 Mounting in separate housing FDCH221 (accessory)
- 3 Use auxiliary terminals DBZ1190-AB (accessory) 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.

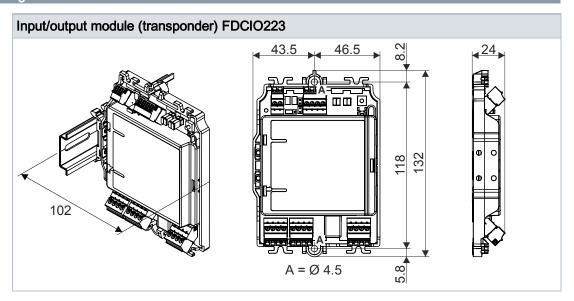
Technical data

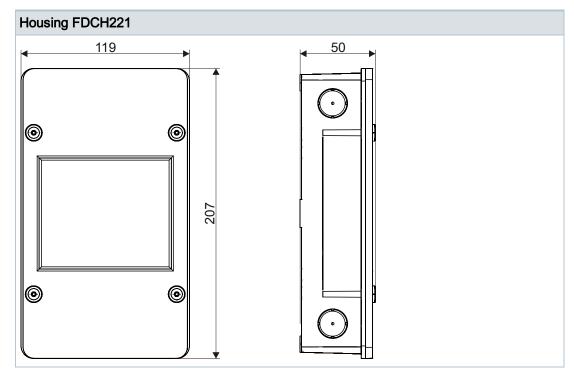
General (irrespective of the device)		
FDnet/C-NET operating voltage	DC 1233 V	
Operating current FDnet/C-NET	Max. 0.75 mA	
Maximum current connection factor	3	
 External power supply: Input voltage Operating current without secondary load at 24 V Operating current with secondary load 	DC 1832 V • 26 mA (typ.) • 60 mA (max.) Max. 2 A	
Inputs/outputs as: Collective detector line/conventional detector line Collective detector key figures KMK Terminal resistance Control output	110 series, MS9, Sigmacon, AlgoRex, Synova600, Synova300, Apollo Series 65 / Orbis or similar 32 20 V Transzorb diode or EOL22 (Ex) DC 24 V ±5 % / max. 1x 1.5 A or 2x 1 A (fuse on 24 V supply line and on output side)	
Contact inputTerminating resistor combinations	3.3 kΩ / 680 Ω, 2.7 kΩ / 560 Ω, 3.3 kΩ	
Operating temperature	-25+60 °C	
Storage temperature	-30+65 °C	
Air humidity	≤85 % rel. (no freezing or condensing at low temperature)	
Communication protocol	FDnet/C-NET	
Connections: • Pluggable connection terminals	0.21.5 mm² (with 2.5 mm² connection terminal DBZ1190-AB)	
MC link	Plug-type connection, 3.5 mm jack socket	
Color: Housing Cover Housing FDCH221 Protection category (IEC 60529): When mounted on a U-rail in a fire control panel	~RAL 9010, pure white Transparent matt ~RAL 9010, pure white IP30	
When mounted on a 0-rail in a fire control panel With housing FDCH221	IP65	

General (irrespective of the device)		
Standards	CEA GEI I-084, EN 54-13, EN 54-17, EN 54-18	
Approvals:		
• VdS	G206054	
• LPCB	531m/03	
• FM	3029351	
Marine	MEDB00003UU	
System compatibility:		
FDnet	FS20, AlgoRex, SIGMASYS	
• C-NET	FS720	

07	(0786	FDCIO223	Siemens Schweiz AG; Theilerstrasse 1a CH-6300 Zug Technical data: see doc. 009122
FDCIO223 - Input/output device incl. short-circuit isolator for use in fire detection and fire alarm systems installed in buildings.			
	305/2011/EU (CPR): EN 54-18 / EN 54-17 ; 2014/30/EU (EMC): EN 50130-4 / EN 61000-6-3 ; 2011/65/EU (RoHS): EN 50581		
The decl	The declared performance and conformity can be seen in the Declaration of Performance (DoP) and the EU Declaration of Conformity (DoC), which is obtainable via the Customer Support Center: Tel. +49 89 9221-8000 or https://siemens.com/bt/download		

DoP No.: 0786-CPR-20430; DoC No.: CED-FDCIO223





Issued by
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www.siemens.com/buildingtechnologies

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 Document ID
 009168_p_en_- Manual FD20/FD720

 Edition
 2018-06-15
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