SIEMENS

FDCI222, FDCIO222, FDCIO224

Sinteso™
Cerberus™ PRO

Input module
Input/output modules

addressable (FDnet/C-NET)

- **Input module FDCI222 with 4 monitored contact inputs for the acknowledgement of technical states or alarm actuation**
- **Input/output module FDCIO222 with 4 control outputs with potential-free relay contacts for the control of fire doors, ventilation, air conditioning, elevator control installations and 4 monitored contact inputs for acknowledgement or alarm actuation**
- **Input/output module FDCIO224 with 4 control outputs with potential-free relay contacts for the control for VdS interface of an extinguishing activating device and 4 monitored contact inputs for acknowledgement (status messages)**
- **Microprocessor-controlled signal evaluation**
- **LED display of input and output status, fault, test, etc.**
- **Two-wire installation for all types of cable**
- **Power supply via FDnet/C-NET**
- **Communication via FDnet/C-NET (individual addressing)**
- **Applicable in dry, dusty and humid areas**
- **Different mounting possibilities**

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Characteristics

- **Environmental**
- – ecologically processing
- – recyclable materials
- – electronic und synthetic material simple separable
- **Characteristics**
- – transparent housing for good visibility of the indicators
- – protected electronics
- – integrated line separator
- – temporal status monitoring
- – no auxiliary power supply required
- – easy installation with spring-loaded catch
- – applicable in dry areas
- – use auxiliary housing for application in dust and humid/wet areas
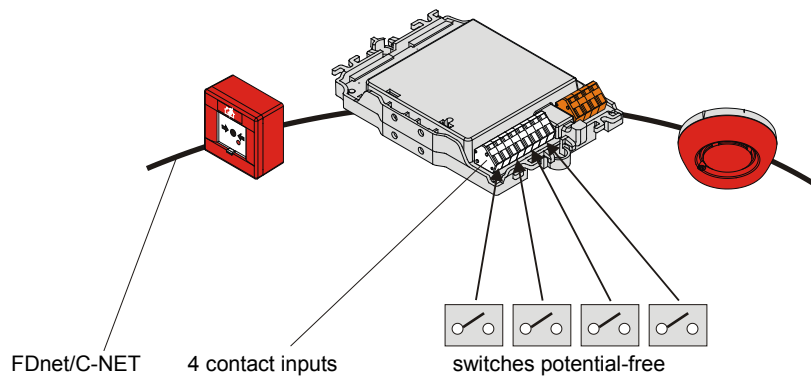
FDCI222 Input module

- **Function**
- – 4 inputs for potential-free contacts
- – Input lines are monitored for open line and short circuit (termination resistors).
- – Inputs can be independently configured via the fire control panel for status or alarm messages.
- – status indication by LED
- **Application**
- – For the connection of 4 independent, potential-free make or break contacts for the message of technical states (e.g. door or ventilation control) or for alarm actuation (e.g. sprinkler alarm).
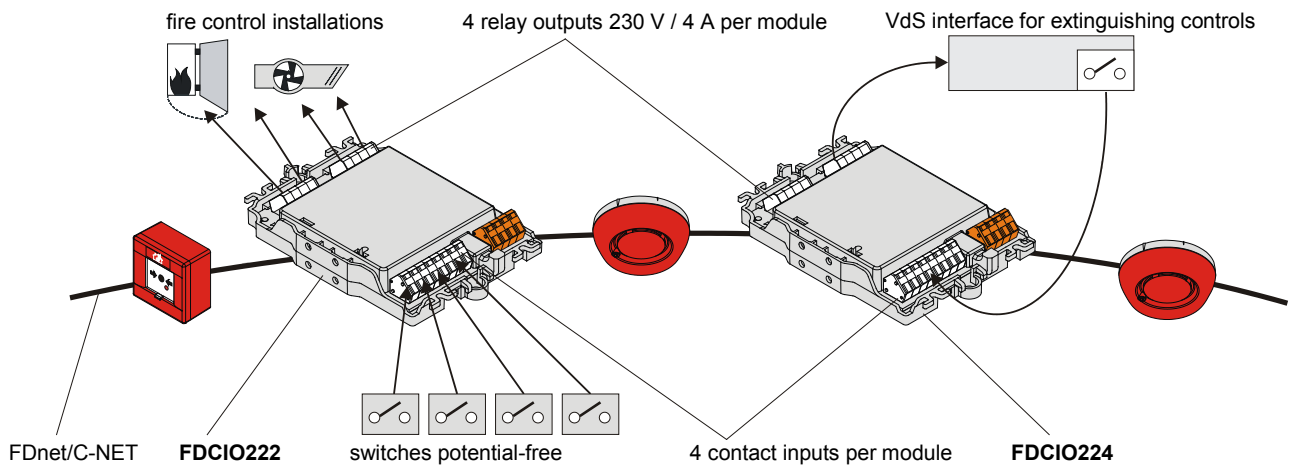

FDnet/C-NET   4 contact inputs   switches potential-free

FDCIO222, FDCIO224 Input/output modules

- **Function**
- – 4 inputs for potential-free contacts
- – Input lines are monitored for open line and short circuit (termination resistors).
- – Inputs can be independently configured via the fire control panel for status or alarm messages.
- – 4 outputs with 4 potential-free relay contacts (AC 230 V / 4 A) for fire control installations (FDCIO222), for the VdS interface for extinguishing controls (FDCIO224)
- – status indication by LED

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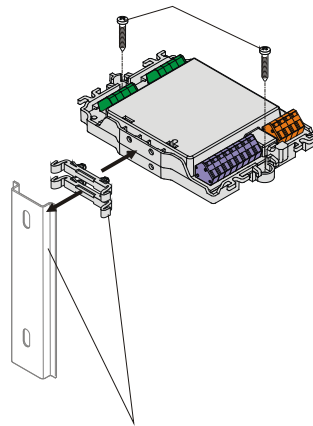CPS Fire Safety

● **Application**
- FDCIO222 for the connection of 4 independent, potential-free make or break con-tacts for the message of technical states (e. g. door or ventilation control) or for alarm actuation (e.g. sprinkler alarm).
- For the decentralized control of fire doors, ventilation, air conditioning, etc.
- FDCIO224 for the VdS interface for extinguishing activating devices

fire control installations   4 relay outputs 230 V / 4 A per module   VdS interface for extinguishing controls

FDnet/C-NET   **FDCIO222**   switches potential-free   4 contact inputs per module   **FDCIO224**
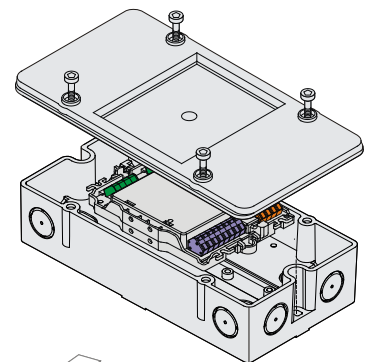
Installation

- screw directly onto plane surface area
- mounting (series mounting) top hat rail TS35
- surface- or recess-mounted cable ducts
- in housing FDCH221 with cover, seal and screws

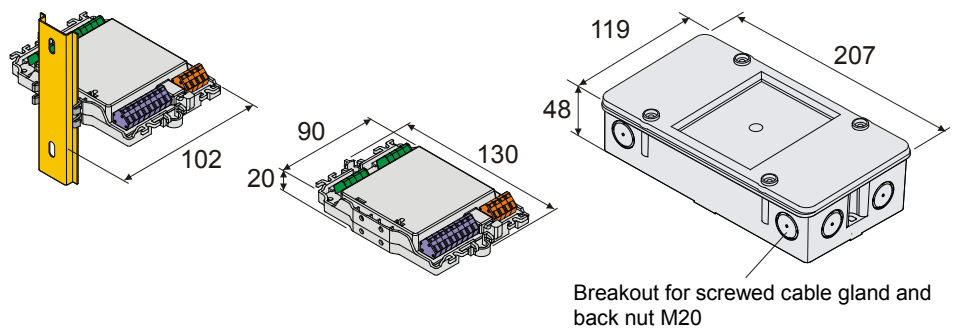Installation directly in switching cabinet / control unit   Mounting in separate housing FDCH221

Installation in range with enclosed mounting feeds at top U rail TS35

For shielding cables use connection termi-nals DBZ1190-AB

Dimensions

119

207

48

102

90

130

20

Breakout for screwed cable gland and back nut M20

Technical data

	FDCI222	FDCIO222 / FDCIO224	
Operating voltage	DC 12…33 V	DC 12…33 V	
Operating current (quiescent)	0.25…0.35 mA	0.6…0.75 mA	
Relays output (ohm)	–	AC 250 V / 4 A, max. 1000 VA	
		DC 30 V / 4 A, max. 120 W	
Operating temperature	-25…+60 °C	-25…+60 °C	
Storage temperature	-30…+65 °C	-30…+65 °C	
Humidity	≤95 % rel.	≤95 % rel.	
Communication protocol	FDnet/C-NET	FDnet/C-NET	
Connection terminals	0.2…1.5 mm^2 (2.5 mm^2)	0.2…1.5 mm^2 (2.5 mm^2)	
Color			
– Housing	white, ~RAL 9010	white, ~RAL 9010	
– Cover	transparent matt	transparent matt	
– Aux. housing FDCH221	white, ~RAL 9010	white, ~RAL 9010	
Protection category EN 60529 / IEC 60529	IP30	IP30	
– with aux. housing FDCH221	IP65	IP65	
Standards	CEA GEI I-084,	CEA GEI I-084,	
	EN 54-17, EN 54-18	EN 54-17, EN 54-18	
Approvals		FDCIO222	FDCIO224
– VdS	G204028	G204029	G207001
– LPCB	531m/01	531m/02	–
System compatibility			
– FDnet	FS20, AlgoRex, SIGMASYS		
– C-NET	FS720		
QS standards	Siemens Standard SN 36350		

08 CE 0786	**FDCI222**	Siemens Switzerland Ltd, Gubelstrasse 22 CH-6301 Zug, Switzerland Technical data: see doc. **007023**
FDCI222 - 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 ; 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-20446; DoC No.: CED-FDCI222		

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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-20447; DoC No.: CED-FDCIO222		

08 CE 0786	**FDCIO224**	Siemens Switzerland Ltd, Gubelstrasse 22 CH-6301 Zug, Switzerland Technical data: see doc. **007023**
FDCIO224 - 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 ; 2004/108/EC (EMC): EN 50130-4 / EN 61000-6-3 ; 2006/95/EC (LVD): EN 60950-1		
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-20448; DoC No.: CED-FDCIO224		

Details for ordering

Type	Part no	Designation	Weight
FDCI222	A5Q00001984	Input module 4 inputs incl. 8 resistors, 2 mounting feeds	0.080 kg
FDCIO222	A5Q00002369	Input/output module (4 inputs / 4 outputs) incl. 8 resistors and 2 mounting feeds	0.116 kg
FDCIO224	A5Q00018689	Input/output module (4 inputs / 4 outputs) incl. 8 resistors and 2 mounting feeds, for VdS interface	0.116 kg
FDCH221	S54312-F3-A1	Housing with cover, seal and screws	0.280 kg
–	A5Q00004478	Metal screwed cable gland M20 x 1.5	0.039 kg
–	A5Q00004479	Back nut M20	0.006 kg
DBZ1190-AB	BPZ:4942340001	Connection terminal 1.0…2.5 mm^2 (3-pole)	0.002 kg
FDCM291	A5Q00003855	Mounting feeds (25 pcs.)	0.002 kg

Spare part — FDCM291

Details see equipment overview 008164 (Sinteso), A6V10225323 (Cerberus PRO)

Details about system compatibility see List of compatibility 008331

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