



FDCIO223

Transponder

addressable (FDnet/C-NET)

Sinteso™
Cerberus® PRO



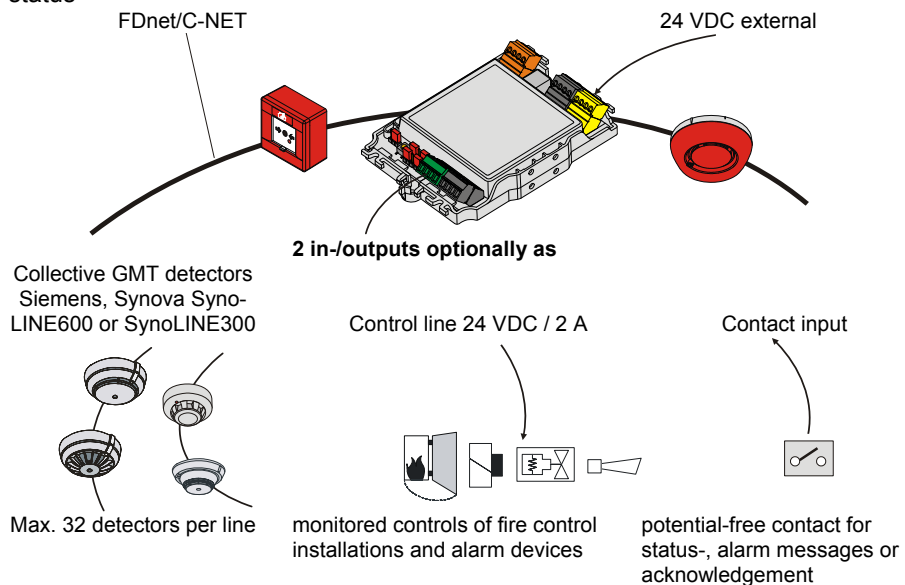
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- 2 monitored in-/outputs selectable as detector line (collective Siemens/Cerberus, Synova 600 or conventional Synova 300), as contact input, control output or as control output with acknowledgement
 - LED display of input and output status, fault, test, etc.
 - Control output for equipment 24 VDC, max. 2 A
 - Two-wire installation for all types of cable
 - Pluggable connection terminals
 - Power supply 24 VDC external (detection lines galvanically isolated)
 - Microprocessor-controlled signal evaluation
 - Communication via FDnet/C-NET (individual addressing)
 - Applicable in dry, dusty and humid areas
 - Different mounting possibilities

Characteristics

- **Environmental**
 - ecological processing
 - recyclable materials
 - electronic und synthetic materials can be easily separated
- **Characteristics**
 - transparent housing for good visibility of the indicators
 - protected electronics
 - integrated line separator
 - easy installation with spring-loaded catch
 - applicable in dry areas
 - use auxiliary housing for application in dust and humid/wet areas

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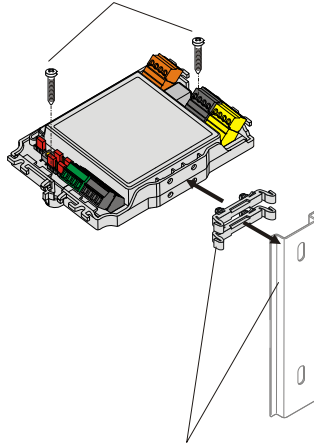
- **Function**
 - The 2 in-/outputs can be parameterized autonomously in each case as
 - detector line collective
 - contact input
 - control output
 - control output and input as acknowledgement with selectable monitoring time frame
 - Monitored of the in-/outputs as
 - detector line in quiescent condition, alarm, open line, short circuit, fault and earth fault
 - contact input in quiescent condition, activate, open line, short circuit, fault (termination resistors) and earth fault
 - control output in quiescent condition, open line, short circuit and earth fault
 - Status indication by LED
 - Control output with selectable equipments monitoring equal polarity or by reversed polarity (e.g. alarm devices)
- **Application**
 - for connection of collective fire detectors (GMT/conventional line, GMT/conventional line with shunt-Zener-diode barrier (SB3) for explosion-hazard areas)
 - for monitored controls of e.g. smoke dampers, alarm devices, door magnets and extinguishing activation devices (adhere to country-specific instructions)
 - monitored signal input for status and alarm messages or for acknowledging technical status



Installation

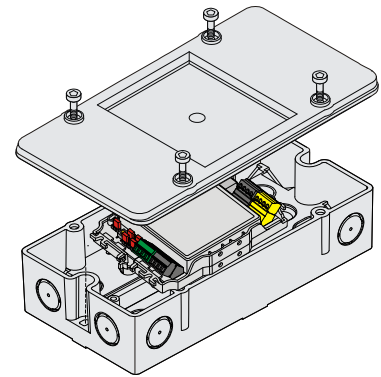
- screw directly onto plane surface area
- mounting (series mounting) top hat rail TS35
- surface or recess-mounted cable ducts
- in housing FDCH221 with cover, seal and screws

Installation directly in switching cabinet / control unit



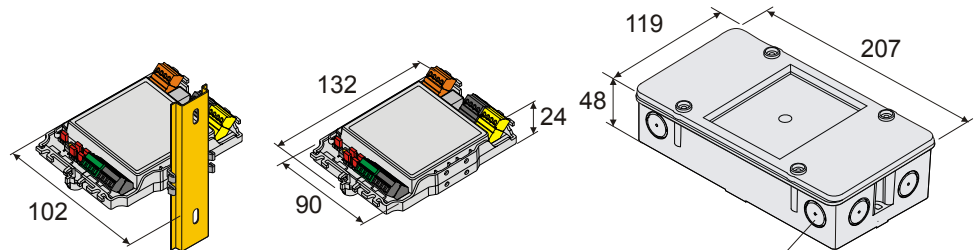
Installation in range with enclosed mounting feet at top hat rail TS35

Mounting in separate housing FDCH221




For shielding cables use connection terminals DBZ1190-AB

Dimensions



Breakout for screwed cable gland and back nut M20

Technical data

 Siemens Schweiz AG, CH-6301 Zug Date: see manufacturing date on the product 0786-CPD-20430 EN54-17, EN54-18 Transponder; Safety in case of fire FDCIO223 Technical data see Doc. 009122	Operating voltage FDnet/C-NET	12... 33 VDC
	External power supply	
	- Input voltage	18... 32 VDC
In-/outputs as		
- Collective detector line	GMT Siemens/Cerberus, Synova300C or similar	
- Collective line factor KLK	32	
- End of line	20 V transzorb diode or EOL22(Ex)	
- Control output	24 VDC ±5 % / 2 A (fuse on site)	
- Contact input		
- End of line combinations	3.3k Ω/680 Ω, 2.7k Ω/560 Ω, 3.3k Ω	
Operating temperature	-25... +60 °C	
Storage temperature	-30... +65 °C	
Humidity	≤95 % rel.	
Communication protocol	FDnet/C-NET	
Connectable terminal blocks	0.2... 1.5 mm ² (Auxiliary terminal 2,5 mm ²)	
Color		
- Housing	white, ~RAL 9010	
- Cover	transparent matt	
- Aux. housing FDCH221	white, ~RAL 9010	
Protection category EN60529 / IEC529	IP30	
- with aux. housing FDCH221	IP65	
Standards	CEA GEI I-084, EN54-17, EN54-18	
Approvals		
- VdS	G206054	
- LPCB	126aq/01	
QS standards	Siemens Standard SN 36350	
System compatibility		
- FDnet	FS20, AlgoRex, SIGMASYS	
- C-NET	FS720	

Details for ordering

Type	Part no	Designation	Weight
FDCIO223	S24218-B102-A1	Transponder incl. 2 pcs. transzorb diode 20 V, 4 sets termination resistors, 2 mounting feeds	0.164 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.)	0.060 kg

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

Details about system compatibility see List of compatibility 008331

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