



FDCIO223

Sinteso™

Transponder



addressable (FDnet)

-
- 2 monitored in-/outputs selectable as detector line (digital comparator collective Siemens/Cerberus or Synova300), as contact input, control output or as control output with acknowledgement
 - LED display of input and output status, fault power supply
 - 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 (individual addressing)
 - Applicable in dry, dusty and humid areas
 - Different mounting possibilities

- **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 corresponding auxiliary housing for application in dust and humid areas

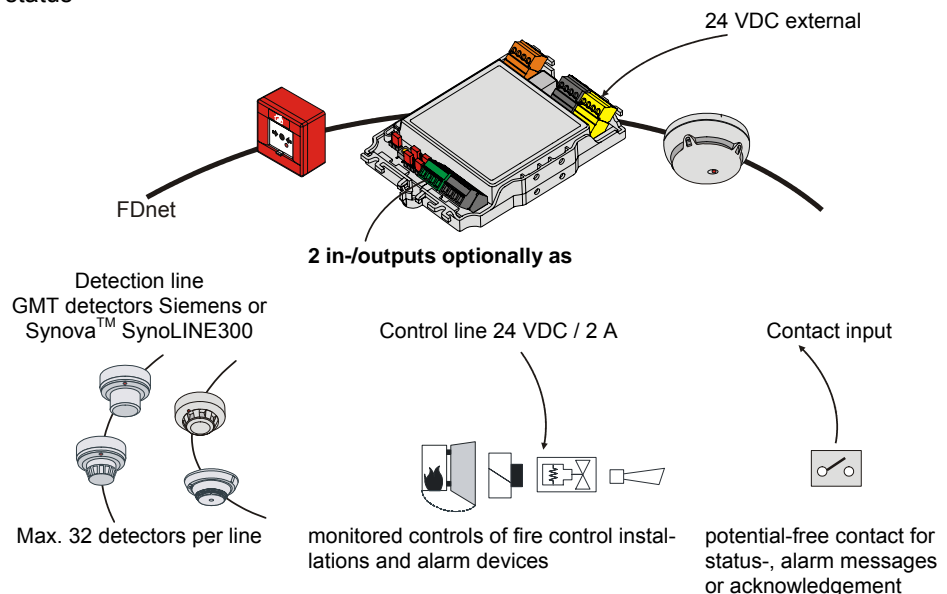
Transponder FDCIO223

- **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**

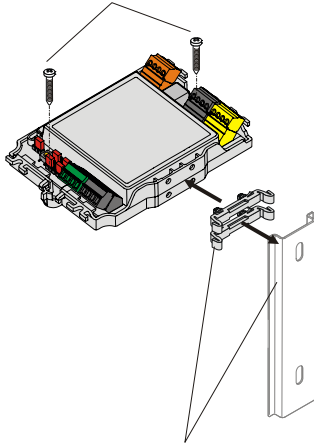
- for connection of collective fire detectors (GMT/conventional line, GMT/conventional line with shunt-Zener-diode barrier (SB3) for explosion-hazard areas)
- for monitored controls of e.g. smoke dampers, alarm devices, door magnets and extinguishing activation devices (adhere to country-specific instructions)
- monitored signal input for status and alarm messages or for acknowledging technical status



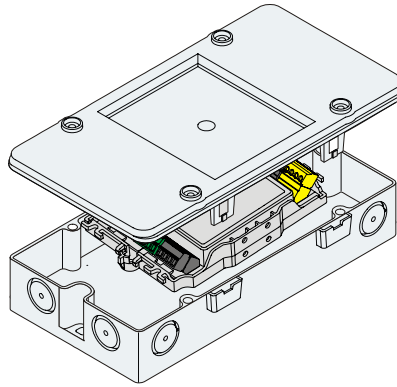
Installation

- screw directly onto top hat rail
- mounting (series mounting) top hat rail TS35
- surface or recess-mounted cable ducts
 - housing with cover (spring-loaded catch) for dry applications
 - housing with cover, seal and screws for wet applications

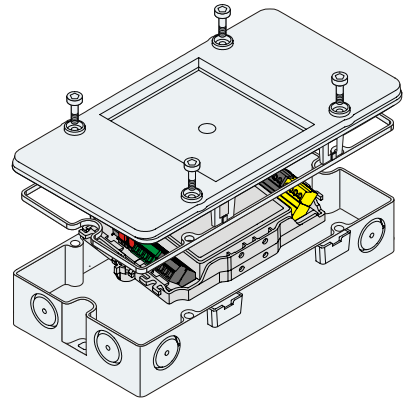
Installation directly in switching cabinet / control unit



Installation in separate housing FDCH291 for dry applications

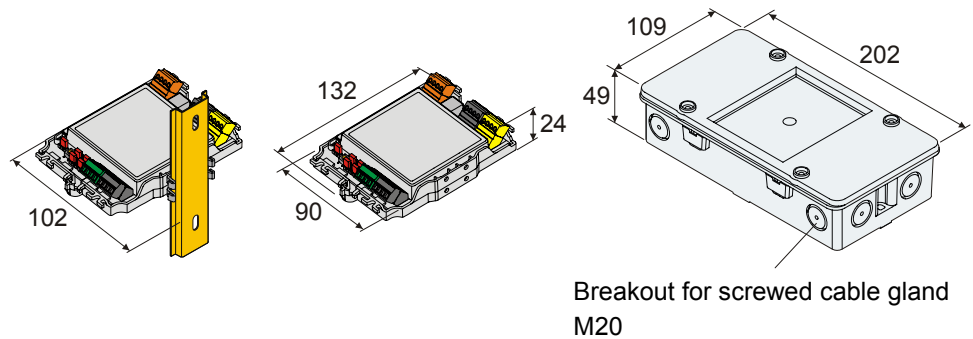


Installation in separate housing FDCH292 for wet applications



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

Dimensions



Technical data

Operating voltage FDnet	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 $\pm 5\%$ / 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	$\leq 95\%$ rel.
Communication protocol	FDnet
Connectable terminal blocks	0.2... 1.5 mm ² (Auxiliary terminal 2,5 mm ²)
Color	
– Housing	pure white, RAL 9010
– Cover	transparent matt
– Aux. Housing FDCH291/292	pure white, RAL 9010
Protection category EN60529 / IEC529	
– without auxiliary housing	IP30
– with aux. housing FDCH291	IP54
– with aux. housing FDCH292	IP65
Standards	CEA GEI I-084, EN54-17, EN54-18
Approvals	
– VdS	G206054
QS standards	Siemens Standard SN 36350
System compatibility FDnet	FS20, AlgoRex, SIGMASYS

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
FDCH291	A5Q00002395	Housing with cover and screws	0.351 kg
FDCH292	A5Q00003942	Housing with cover, seal and screws	0.364 kg
–	A5Q00004478	Metal screwed cable gland M20 x 1.5	0.039 kg
–	A5Q00004479	Back nut M20	0.006 kg
FDCM291	A5Q00003855	Mounting feeds (25 pcs.)	0.060 kg
–	4074540001	Auxiliary terminal 2,5 mm ²	0.018 kg

Details see equipment overview 008164

Details about system compatibility see List of compatibility 008331