



**CANopen**<sup>®</sup>

## CS200/x CANopen Slave Modules

The CS200/x is the head module for CANopen slave stations. The CS200/x allows modular CANopen slave stations to be set up from the M1 modules. The same modules that are used for local stations can be used to design a slave station, which simplifies stock-keeping and consistently ensures the same technical data.

- Head module for CANopen slave stations
- Up to 30 I/O modules per slave station
- Optional integrated power supply
- Transfer rate 10 Kbaud to 1 Mbaud
- Bus length to 5000 m (signal repeater required)
- Two internally connected CAN interfaces for loop-through of the cable
- Galvanic isolation between CAN interfaces and control electronics
- Node address can be set via rotary switch
- 2 serial interfaces (COM 1/2)
- External 24 V power supply (CS200/N)

Item	Item No.
CS200	00013178-00
CS200/N	00013179-00

# Bus Coupler

CS200 / x	
CANopen slave	
Node ID	1 to 254 selectable via rotary switch
Protocol	CANopen to CiA DS 301 V3.0
Device profile	In accordance with CiA DS 401 for I/O, in accordance with CiA DS 402 for ACR
Firmware	Reloadable (FLASH technology)
Number of I/O modules	15 per station, 30 using bus extension modules BES/BEM or FASTBUS
Current consumption	600 mA/5 V, 15 mA/+ 15 V, 40 mA/- 15 V
Serial interfaces	COM1: RS232, COM2: RS232/422/485
CAN interface	
Transfer rate	10 k to 1 Mbaud
Bus length	Max. 5000 m
Connection	2x 9-pin D-Sub female connectors
Pin assignment	In accordance with CiA DS 102/4
Signal level	In accordance with CiA DS 102/4
Terminating resistance	123 ohm, external
Galvanic isolation, Interfaces to the system	500 V
CANopen features in compliance with CiA Product Guide	
CANopen master	N
CANopen slave	Y
Extended boot-up	N
Minimum boot-up	Y
COB ID distribution	Per SDO, no DBT
Node ID distribution	N, (no LMT)
No. of TxPDOs/RxPDOs	128/128
PDO modes	sync, async, RTR, event
Variable PDO mapping	Y
Emergency message	Y
Life guarding	Yes (heartbeat/node guarding)
No. of SDOs	4 servers
Device profile	301, 401, 402
Optional integrated power supply (optional) CS200/N	
Voltage range	18 to 34 VDC
Current consumption	Max. 1.2 A at 24 V
Nominal power	17 W
Current consumption at + 5 V	2000 mA
Current consumption at + 15 V	250 mA
Current consumption at - 15 V	200 mA

# Bus Coupler

CS200 / x	
Approvals / Certificates	
General	CE, UL/cUL, CCC
Marine	GL/DNV, LR, ABS, BV
Ambient conditions	
Operating temperature	-30 to +60 °C
Rel. humidity operation	5 to 95 % without condensation
Storage temperature	-40 to +85 °C
Rel. humidity storage	5 to 95 % without condensation
Pollution degree	2 (without condensation; according to IEC 60664-1)

Order Codes CS200/x		
Item	Item No.	Description
CS200	00013178-00	CAN bus master 1 line 1 Mbit/s, processor system, isolated
CS200/N	00013179-00	CAN fieldbus slave module; 1x CAN/CANopen; 1Mbit/s; isolated; integrated power supply 17W
Accessories		
KZ 51/03 B	00012052-00	Terminal 03-pins grid 5,08; cage clamp terminal with labeling strip
K-CAN/xm		Cabel CAN with x m length (x = user-defined) male <> female, without terminating resistor
K-CAN/0.5m	00008684-03	Cabel CAN with 0.5 m length
K-CAN/1.0m	00008684-08	Cabel CAN with 1.0 m length
K-CAN/2.0m	00008684-04	Cabel CAN with 2.0 m length
K-CAN/5.0m	00008684-06	Cabel CAN with 5.0 m length
S-CAN/1B	00009383-00	Connector CAN-terminator, 37 mm high, 120 Ω, female