



CANopen

DIO16-C, DIO32-C, DIO264-C CAN Slave Digital Input/Output Modules

The digital I/O modules DIO16-C, DIO32-C or DIO264-C are stand-alone CAN slave modules with 16, 32 or 64 digital input/output channels.

- Stand-alone, compact CAN slave module
- 16 / 32 channels can be freely configured as input or output
- Digital outputs each with 1 A continuous current
- Two internally connected CAN interfaces for loop-through of the cable
- Galvanic isolation between CAN interfaces and control electronics
- Baud rate and node ID can be set via rotary switch
- Supply voltage 18 to 34 VDC
- Operating range 0 to +60 °C without additional cooling
- Full wiring without additional backplanes
- Snappable on EN 50022 backplanes

Item	Item-No.
DIO16-C	00010285-00
DIO32-C	00010129-00
DIO264-C	00009205-00

	DIO16-C	DIO32-C	DIO264-C
Inputs			
Quantity	Max. 16	Max. 32	Max. 64
Input delay	< 3.5 ms	< 3.5 ms	< 3.5 ms
Internal resistance	6 k Ω	6 k Ω	6 k Ω
Status display	Green LED	Green LED	Green LED
Outputs			
Quantity	Max. 16	Max. 32	Max. 32
Supply voltage	18 to 34 VDC	18 to 34 VDC	18 to 34 VDC
Isolated output blocks	1-16	1-16, 17-32	1-16, 17-32
Nominal output current	1 A	1 A	1 A
Output current (sum / block)	Max. 12 A	Max. 12 A	Max. 12 A
Switching frequency	Max. 500 Hz	Max. 500 Hz	Max. 500 Hz
Short-circuit proof	Yes	Yes	Yes
Status display	Green LED	Green LED	Green LED
CAN interface			
Transfer rate (Kbaud)	10 to 1000	10 to 1000	10 to 1000
Connection	2x 9-pin D-Sub	2x 9-pin D-Sub	2x 9-pin D-Sub
Module ID	1 to 254	1 to 254	1 to 254
Galvanic isolation	500 V	500 V	500 V
Terminating resistance	123 Ω , external	123 Ω , external	123 Ω , external
External power supply			
Voltage range	18 to 34 VDC		
Current consumption (without I/O)	Normally 100 mA at 24 VDC		
Reverse polarity protection	Yes		
CAN protocols			
CAL / CANopen	DS 301 communication profile, DS 401 device profile		
Status LEDs	RUN (guarding), INIT, ERROR		
Approvals / Certificates			
General	CE, cULus, CCC		
Marine	DNV GL, LR, ABS, BV, NK, KR, RINA		
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 % with condensation		
Pollution degree	2 (without condensation; according to IEC 60664-1)		

Order Codes			
Item	Item No.	Description	
DIO16-C	00010285-00	CAN slave - digital input/output module; 16x DIO; 24V / 1A; 1 group; CAN/CANopen; 2x DSUB 9 (In/Out); up to 1Mbit/s; isolated	
DIO32-C	00010129-00	CAN Slave - Digital IO module; 32x DIO, 24V / 1A; 2 groups; CAN/CANopen; 2x DSUB 9 (In/Out); up to 1Mbit/s; isolated	
DIO264-C	00009205-00	CAN Slave - Digital IO module; 32x DI; 32x DIO, 24V / 1A; 2 groups; CAN/CANopen; 2x DSUB 9 (In/Out); up to 1Mbit/s; isolated	
Accessories			
KZ-DIO16-C B+C	00012011-50	Terminal set Phoenix cage clamp (1x KZ 51/07; 4x KZ 51/12) with labeling strip and coding elements	
KZ-DIO32-C B+C	00012012-50	Terminal set Phoenix cage clamp (1x KZ 51/07; 8x KZ 51/12) with labeling strip and coding elements	
KZ-DIO264-C B+C	00012014-50	Terminal set Phoenix cage clamp (1x KZ 51/03; 6x KZ 51/12) with labeling strip and coding elements	
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	
S-CAN/1S	00011036-00	Connector CAN-terminator, 37 mm high, 120 Ω, for DIOxx-C, TCO2xx-C, DA3284-C and female-female CAN cable	