



**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
<b>Inputs</b>			
Quantity	Max. 16	Max. 32	Max. 64
Input delay	< 3.5 ms	< 3.5 ms	< 3.5 ms
Internal resistance	6 k $\Omega$	6 k $\Omega$	6 k $\Omega$
Status display	Green LED	Green LED	Green LED
<b>Outputs</b>			
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
<b>CAN interface</b>			
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 $\Omega$ , external	123 $\Omega$ , external	123 $\Omega$ , external
<b>External power supply</b>			
Voltage range	18 to 34 VDC		
Current consumption (without I/O)	Normally 100 mA at 24 VDC		
Reverse polarity protection	Yes		
<b>CAN protocols</b>			
CAL / CANopen	DS 301 communication profile, DS 401 device profile		
Status LEDs	RUN (guarding), INIT, ERROR		
<b>Approvals / Certificates</b>			
General	CE, cULus, CCC		
Marine	DNV GL, LR, ABS, BV, NK, KR, RINA		
<b>Ambient conditions</b>			
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	