



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 standalone CAN slave modules with 16, 32 or 64 digital input/output channels.

Features

- Stand-alone, compact CAN slave module
- 16/32 channels freely configurable 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 V DC to 34 V DC
- Field of application 0 °C to +60 °C with no additional cooling
- Full wiring without additional backplanes
- Snappable on EN 50022 backplanes

Part type designation	Part number
DIO16-C	00010285-00
DIO32-C	00010129-00
DIO264-C	00009205-00

DIO16-C, DIO32-C, DIO264-C

Inputs	DIO16-C	DIO32-C	DIO264-C
Quantity	Max. 16	Max. 32	Max. 64
Input delay	< 3.5 ms		
Internal resistance	6 kΩ		
Status indication	Green LED		
Outputs	DIO16-C	DIO32-C	DIO264-C
Quantity	Max. 16	Max. 32	Max. 32
Supply voltage	18 V DC to 34 V DC		
Isolated output blocks	1-16	1-16, 17-32	1-16, 17-32
Nominal output current	1 A		
Output current (sum/block)	Max. 12 A		
Switching frequency	Max. 500 Hz		
Short-circuit-proof	Yes		
Status indication	Green LED		
CAN interface	DIO16-C	DIO32-C	DIO264-C
Transfer rate (kBaud)	10 to 1000		
Connection	2x 9-pin D-sub		
Module ID	1 to 254		
Galvanic isolation	500 V		
Terminating resistor	123 Ω, external		
External power supply	DIO16-C	DIO32-C	DIO264-C
Voltage range	18 V DC to 34 V DC		
Current consumption (without I/O)	Typ. 100 mA at 24 V		
Reverse polarity protection	Yes		
CAN protocols	DIO16-C	DIO32-C	DIO264-C
CAL / CANopen	DS 301 communication profile, DS 401 device profile		
Status LED	RUN (guarding), INIT, ERROR		
Approvals/Certificates	DIO16-C	DIO32-C	DIO264-C
General	CE, UKCA, cULus		
Marine	ABS, BV, DNV, KR, LR, NK, RINA		
Environmental conditions	DIO16-C	DIO32-C	DIO264-C
Operating temperature	-30 °C to +60 °C		
Relative humidity, operation	5 % to 95 % noncondensing		
Storage temperature	-40 °C to +85 °C		
Relative humidity, storage	5 % to 95 % with condensation		
Pollution degree (IEC 60664-1)	2 (noncondensing)		

Order data

Part type designation	Part number	Description
DIO16-C	00010285-00	CAN slave - digital input/output module; 16x DIO; 24 V/1 A; 1 group; CAN/CANopen; 2x D-sub 9 (In/Out); up to 1 Mbit/s; isolated
DIO32-C	00010129-00	CAN slave - digital input/output module; 32x DIO, 24 V/1 A; 2 groups; CAN/CANopen; 2x D-sub 9 (In/Out); up to 1 Mbit/s; isolated
DIO264-C	00009205-00	CAN Slave - digital input/output module; 32x DI; 32x DIO, 24 V/1 A; 2 groups; CAN/CANopen; 2x D-sub 9 (In/Out); up to 1 Mbit/s; isolated

Accessories

Part type designation	Part number	Description
KZ-DIO16-C B+C	00012011-50	Terminal set Phoenix cage clamp (1x KZ 51/07; 4x KZ 51/12) with labeling strips and keying elements
KZ-DIO32-C B+C	00012012-50	Terminal set Phoenix cage clamp (1x KZ 51/07; 8x KZ 51/12) with labeling strips and keying elements
KZ-DIO264-C B+C	00012014-50	Terminal set Phoenix cage clamp (1x KZ 51/03; 6x KZ 51/12) with labeling strips and keying elements
K-CAN/xm		Cabel CAN with x m length (x = user-defined) male <> female, without terminating resistor
K-CAN/0.5 m	00008684-03	Cable CAN with 0.5 m length
K-CAN/1.0 m	00008684-08	Cable CAN with 1.0 m length
K-CAN/2.0 m	00008684-04	Cable CAN with 2.0 m length
K-CAN/5.0 m	00008684-06	Cable CAN with 5.0 m length
S-CAN/1B	00009383-00	Connector CAN-terminating resistor, female
S-CAN/1S	00011036-00	Connector CAN-terminator resistor, for DIOxx-C, TCO2xx-C, DA3284- C and female-female CAN cable