

## CANOpea

ltem	ltem-No.
DA3284-C	00013597-00
DA3284-C	00013397-00

## DA3284-C CAN-Slave Universal Analog/ Digital Input/Output Module

Noteworthy compactness and a clever mix of possible signal types are offered by the CAN slave DA3284-C. As a stand-alone fieldbus module (CANopen), the module offers the complete I/O spectrum already integrated for small applications or distributed signal connection points. It is the ideal addition to the familiar family of CAN digital modules and is an optimum »all-in-one« peripheral for small applications.

The channel-specific programmable mode (on/off or applied standard signal) enables the unit to be adapted ideally to a wide range of applications without any interface converter. The robust design and processing quality, its outstanding technical specifications, seldom available from the usual fieldbus peripherals, are very impressive.

- Compact CAN slave I/O module
- + 8 analog inputs ±10 V, ±1 V, Pt100, Pt1000, 0 (4) to 20 mA
- + 4 analog outputs  $\pm 10$  V or 0 (4) to 20 mA configurable
- 16 digital inputs
- 16 digital inputs or outputs (individually configurable)
- 2 integrated counter inputs
- Digital outputs each with 0.5 A continuous current
- Error detection for digital and analog channels
- Full wiring without additional backplanes
- Powerful 32-bit processor for fast cycle times

DA3284-C		
Analog inputs		
Quantity	8	
Measuring ranges, selectable by channel	±10 V, ±1V Pt100, Pt1000: -100 °C to +500 °C 0 (4) to 20 mA	
Resolution	14 bit	
Sampling rate	<1 ms for all channels (500 µs)	
Input cutoff frequency	750 Hz (3 dB)	
Basic accuracy at 25 °C	Voltage 0.05 % Current / Pt100 / Pt1000 0.1 %	
Error at the entire temperature range	Voltage 0.2 % Current/Pt100/Pt1000 0.2 %	
Error detection	Cable break (at voltage), current or temperature error	
Analog outputs		
Quantity	4	
Measuring ranges, selectable by channel	±10 V, 0 (4) to 20 mA configurable	
Resolution	14 bit	
Conversion time	Depends on CAN protocol	
Basic accuracy at 25 °C	Voltage 0.05 %	
	Current 0.2 %	
Error at the entire temperature range	Voltage 0.1 %	
	Current 0.4 %	
Error detection	Load error	
Digital inputs		
Quantity	16 (max. 32)	
Input delay	500 µs default value, filter adjustable	
Input current	Normally 3 mA at +24 VDC	
Input type	Current consumption, type 1 in accordance with IEC61131	
Status display	Green LED	
Connection technology	3-wire (+ / - / signal)	
Counter		
Counting channels	2 (digital input channels 1 and 2)	
Counter frequency	Max. 5 kHz	
Counter functions	Counting, speed measurement (period duration, gate time) measurement)	
Counting modes	Infinite up / down	
	<ul> <li>One-time up / down to / from reference value</li> <li>Periodic up / down to / from reference value</li> </ul>	
Digital outputs		
Quantity	16	
Supply voltage	18 to 34 VDC	
Isolated output blocks	1 to 12, 13 to 24	
Nominal output voltage	0.5 A	
Output current sum / block	Max. 8 A / 4 A per block	
Switching frequency	500 Hz (with purely resistive load)	

DA3284-C	
Digital outputs	
Error detection	Short circuit / excess temperature by block
	power supply per block $\leq$ 16.5 V
Status display	Green LED
Connection technology	3-wire (+ / - / signal)
CAN interface	
CANopen	DS 301 communication profile, DS 401 device profile
Status LEDs	RUN (guarding), INIT, ERROR
Transfer rate (Kbaud)	10 to 1000 (adjustable via rotary switch)
Connection	2x 9-pin D-Sub
Module ID	1 to 127 (configurable via rotary switch or SW)
Galvanic isolation	500
Terminating resistance	123 ohm, external
Input / output connection technology	
Connection for digital inputs / outputs and supply	Phoenix Contact MINICOMBICON connector RM 5.8 with flange
Connection technology for digital inputs / outputs and supply	Screw clamp, spring tension clamp, crimp
Connection for analog inputs / outputs	Phoenix Contact MINI COMBICON RM 3.5 connector with flange
Connection technology for analog inputs / outputs	Screw clamp, spring tension clamp
Connection general	Plug codable, labeling by channels
Operating conditions	
Voltage range	18 to 34 VDC
Current consumption	≤ 270 mA at +24 VDC for module supply + load
Reverse polarity protection	Yes
Galvanic isolation CAN bus module	500 V <sub>RMS</sub>
Galvanic isolation I / O channels	None
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 Co	odes		
ltem		ltem No.	Description
DA3284-	C	00013597-00	CAN slave universal input/output module; 16x DI; 16x DIO; 24V/0.5A; 4x AO +-10V 20mA; 8x AI +-10V +-1V 20mA Pt100/1000; CAN/CANopen; 2x DSUB 9 (In/Out); up to 1Mbit/s
Accessor	ries		
KZ-DA23	84-C B+C	00013832-50	Terminal set Phoenix cage clamp (8x KZ 51/12; 1x KZ 51/07; 4x KZ 35/03; 4x KZ 35/12) with labeling strip and coding elements
K-CAN/xi	m		Cabel CAN with x m length (x = user-defined) male <> female, without terminating resistor
K-CA	AN/0.5m	00008684-03	Cabel CAN with 0.5 m length
K-CA	AN/1.0m	00008684-08	Cabel CAN with 1.0 m length
K-CA	AN/2.0m	00008684-04	Cabel CAN with 2.0 m length
K-CA	AN/5.0m	00008684-06	Cabel CAN with 5.0 m length
S-CAN/1	В	00009383-00	Connector CAN-terminator, 37 mm high, 120 $\Omega$ , female
S-CAN/19	S	00011036-00	Connector CAN-terminator, 37 mm high, 120 $\Omega$ , for DIOxx-C, TCO2xx-C, DA3284-C and female-femail CAN cable