

Inline CANopen Modul BD 344

CANopen

Applications

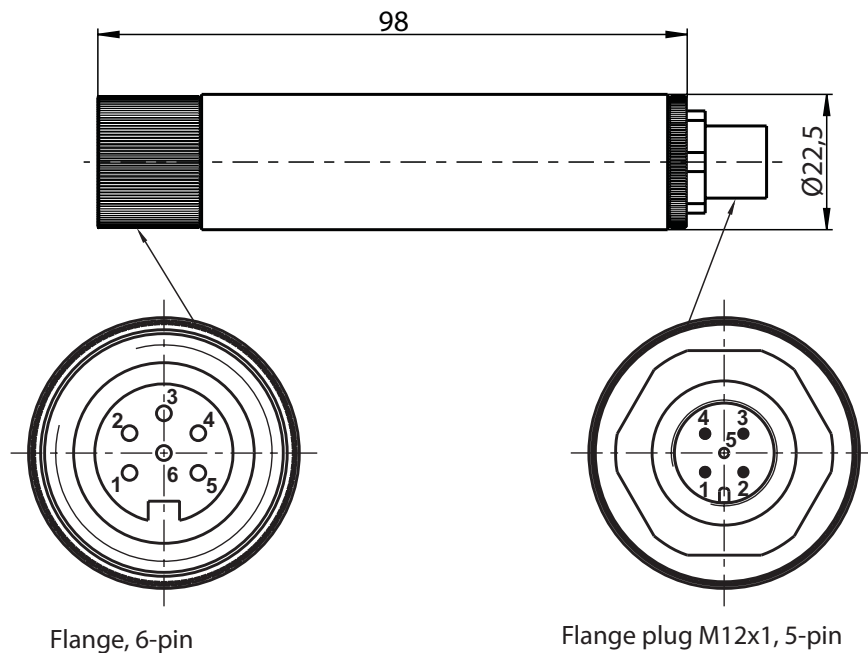
The USB module BD344 enables direct connection of a strain-gauge load cell to a CANopen-Network.



Special Features

- CANopen interface CiA 404
- Sampling rate up to 3200 values/ sec
- 0,01 % accuracy class

Dimensions/ Connections



PIN	4-wire		6-wire	
	Signal	Description	Signal	Description
1	-EX	Supply voltage (-)	-EX	Supply voltage (-)
2	+EX	Supply voltage (+)	+EX	Supply voltage (+)
3	-	-	+SE	Sense signal (+)
4	+SI	Signal output (+)	+SI	Signal output (+)
5	-SI	Signal output (-)	-SI	Signal output (-)
6	-	-	-SE	Sense signal (-)

PIN	Signal	Description
1	CAN-SHLD	Shield (optional)
2	CAN-VCC	Positive Supply voltage
3	CAN-GND	Ground
4	CAN-H	CAN-H connection
5	CAN-L	CAN-L connection

Specifications

Input		Force transducer strain gauge (350 Ohm)
Input signal range (=S*)	mV/V	0.3 ... 5
Sensor supply voltage	VDC	± 2.5
Internal resolution of 2 mV / V		22 bit
Measuring rate (averaging)	1/s	6.25 ... 3200
Transmission rate adjustable	kBits/s	125 / 250 / 500
Power supply		via CAN-Bus
Operating voltage	VDC	24 (5 ... 36)
Environmental condition		
Working temperature range	°C	-10 ... +50
Storage temperature range	°C	-20 ... +70
Error at S=2 mV/V		
Maximum linearity error	%S	0.0015
Noise (at measuring rate)	%S	0.002 (6,25 Hz) ... 0.05 (3200 Hz)
Zero drift	%S/10 K	0.002
Construction		
Weight	g	200
Dimension (L x W)	mm	98 x Ø 22.5
Environmental protection (EN 60529)		IP 65

*S = Sensitivity

Type code

Type code	Description
BD 344-4L	Inline CANopen-Modul, CD-ROM with user manual
BD 344-6L	Inline CANopen-Modul with 6-wire technology, CD-ROM with user manual

Options

	Type Code	Description
Plugs	XKC 041.03	6 pin plug (6-wire)