

BC-CALC-000

Box CAN calculator

Features

- Online calculation of mathematical functions with all available CAN Bus data
- Supplied in a solid, light weight aluminium housing.
- Available functions are:
 - +, -, *, /
 - &, | [AND, OR], &&, ||
 - <=, >=, !=
 - sin(rad), dsin(deg), asin, dasin
 - cos(rad), cos(deg), acos, dacos
 - tan(rad), dtan(deg), atan, datan
 - rad()
 - deg()
 - ln()
 - log10()
 - ^ [power]
 - sqrt()
 - abs()
 - sig() [is 1 if value is above 0, else 0]



Standard with heat shrinking tube: BC-CALC-000



*Prototype, illustration similar (subject to change)

Usage

- test bench / dyno
- control and regulation algorithms

Technical specifications


Electrical characteristics

Power supply.....	8-30 V DC
Current consumption@12V....	20 mA
Channels.....	
➤ CAN:	
IN.....	8
OUT.....	8
➤ Analog Out (0-5V)	2 [optional]
➤ Digital Out:	1 [optional]
Channel resolution	
standard.....	16 Bit
on request (4 CAN channels).	32 Bit

Connections

2D standard CAN..... Binder 712, 5PM

Reference

 For this module is a reference manual available:
 → AC-DOC_BC-CalcSetting_e-000

Mechanical Characteristics

Weight	
heat shrinking tube incl. cable	15 g
Cable	
type.....	Raychem, EPD
wire cross section.....	4 x AWG 26
length	185 mm
Housing material.....	heat shrinking tube

Vibration resistance

Shock.....	40 G
.....	10 ms
Vibration tested at.....	12 G
.....	1000 Hz

Environmental data

Ambient operating range.....	0 to +75 °C
Humidity.....	5 - 95 %
Sealing class.....	IP 65

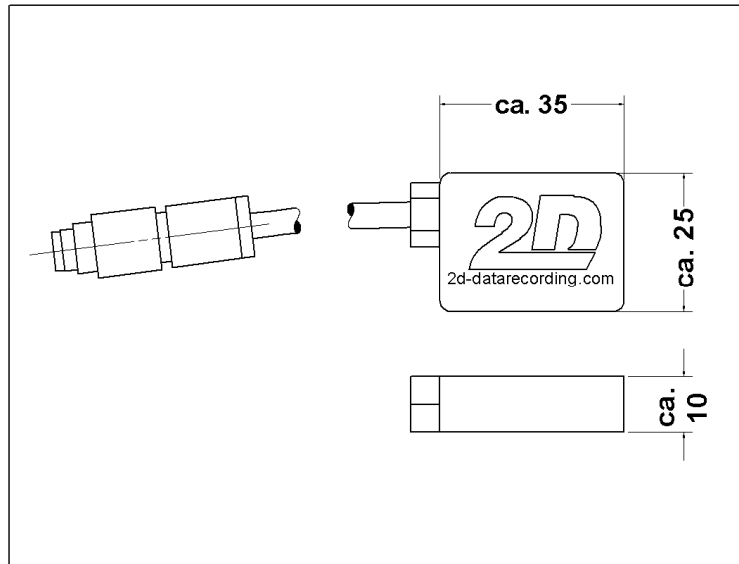
Ordering information

Art.No.:..... BC-CALC-000

BC-CALC-000

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Dimensions



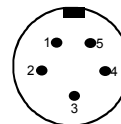
Connector layout

Connector type

CAN-line (Standard)

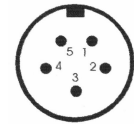
	Pin	Name	Description	Color (standard)
CAN-line Binder 712, 5pin	1	CAN H	CAN Bus High	white
	2	CAN L	CAN Bus Low	green
	3	GND	Ground	black
	4	n.c.	Not connected	-
	5	Vext	Power IN (8-18V)	red

Connector at module



Binder 712, 5 PM
(plan view)

Mating plug



Binder 712, 5 PF
(plan view)



On request there are different options available for the CAN-line connector of all 2D CAN modules. Please take a look at the product group [Connectors] in the 2D Product catalog

Please note:

For the first order of special customer options please use the following order code: **BC-CALC-000**
 After the first order you will get from 2D a uniquely order code for your next orders.