

BC-SG4-000

Box CAN, 4 DMS / SG

Function

- 4 analog channels for 4 full strain gauge bridges

Features

- High precision input amplifier
- 16 Bit resolution
- High precision bridge supply voltage
- Free programmable gain setting by 2D WinIt software
- Offset adjustment by 2D WinIt software



Technical specifications

Electrical characteristics

Power supply.....	8-18 V DC
Current consumption@12V..... (without bridge supply)	50 mA
Resolution.....	16 Bit
Sampling rate:	800 Hz
external.....	12.8 kHz
Internal (A/D converter).....	

DMS application

Bridge supply voltage.....	5 V DC
Max.current (short-circuit/each CH)	50 mA
Bridge resistance.....	100..1000 Ω



do not overload the bridge resistance !

Filter frequency (-3dB).....	25 Hz
Filter type.....	active Bessel 2 nd order
Possible gains.....	10-1000
(free programmable by 2D WinIt software)	

2 level Bridge adjustment:
(adjustable by 2D WinIt software)

bridge offset voltage range..	29 stages
Fine adjustment.....	0.5 V

Mechanical characteristics

Dimensions.....	70 x 40 x 16 mm
Weight (including cable).....	140 g
Housing material.....	aluminium
Cable (DMS)	
type.....	Raychem EPD
wire cross section..	4xAWG26
length.....	320 mm
Cable (CAN-line)	
type.....	Raychem EPD
wire cross section..	4xAWG26
length.....	320 mm

Vibration resistance

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

Environmental data

Ambient operating range.....	-10 to +75 °C
Humidity.....	5 - 95 %
Sealing class.....	IP 67

Documentation

- 💡 Take a look at the homepage
- [Support][Download][2D manuals]
- [Hardware manuals][Product reference]
- AC-DOC BC-SG4-000-Reference e-000

Ordering information

Filter frequency: 25Hz	BC-SG4-000
Filter frequency: 800Hz	BC-SG4-001
Filter frequency: 300Hz	BC-SG4-002

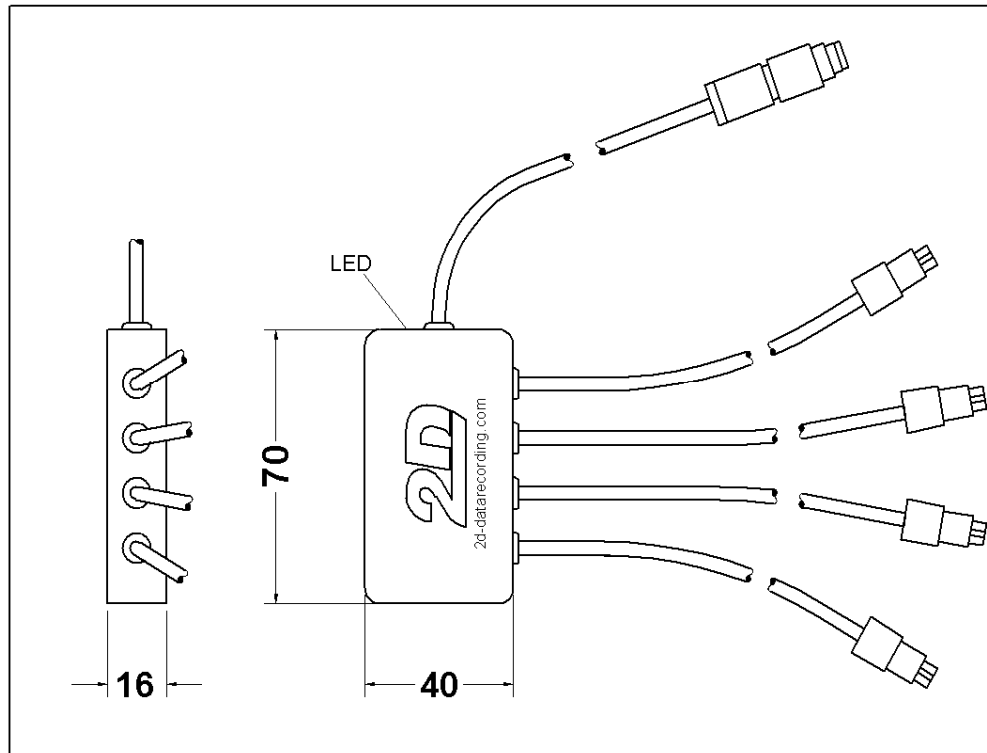
The specifications on this document are subject to change at 2D decision. 2D assumes no responsibility for any claims or damages arising out of the use of this document, or from the use of modules based on this document, including but not limited to claims or damages based on infringement of patents, copyrights or other intellectual property rights.

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BC-SG4-000

Box CAN, 4 DMS / SG

Dimensions



Connector layout

CAN-line (standard)

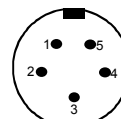
Pin	Name	Description	Color (standard)
1	CAN H	CAN Bus High	white
2	CAN L	CAN Bus Low	green
3	GND	Ground	black
4	n.c.	Not connected	-
5	Vext	Power IN (8-18V)	red

Analog-line (DMS / SG application)

Pin	Name	Description	Color (standard)
1	V-	Bridge ground	black
2	V+	Bridge supply	red
3	S-	Negative signal	green
4	S+	Positive signal	white

Connector type

Plug at module



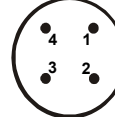
Binder 712, 5 PM (front side)

Mating plug



Binder 712, 5 PF (front side)

Plug at module



Binder 719, 4 PF (front side)

Mating plug



Binder 719, 4 PM (front side)



On request some options are 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