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BC-TK8iso-000 TypeK interface to CAN

Feature

- Amplifies the thermocouple voltage of up-to 8 connected type-K sensors and sends the value onto the CAN-Bus.
- This module is characterized by a high temperature range of –200°C up to 1200°C. Therefore it can be used for measurements in the climatic chamber as well as measurements of the exhaust gas temperature.
- Each channel is “galvanic isolated”
- The modular building ensures a maximum of flexibility.
- Single modules can be combined into a group of modules (e.g. in a temperature test stand). You can screw a unlimited number of singe Type K boxes together.

Single box (8 x temperature type K)

Two Boxes screwed together (16 x temperature Typ K)

Technical specifications

Electrical characteristics

Power supply.....	8-18	V DC
Current consumption@12V.....	150	mA
Channels (temperature type K).....	8	
Galvanic isolation of the channels...	Yes	
Temperature range.....	-200-1200	°C
Sampling rate.....	max. 400	Hz

Use the following formula to convert the Digits into physical values:

Channel	Formula	Offset	Dimension
TYPK#1..8	0,1 * Digits	+ 0	[°C]

signed value

Product reference

Take a look at the homepage
- [Support][Download][2D manuals]
- [Hardware manuals][Product reference]
- **AC-DOC_BC-TK8iso-Reference_e-000**

Mechanical characteristics

Dimensions.....	100x55 x 30	mm
Weight (inc. cables).....	215	g
Housing material.....	aluminium	

Environmental data

Ambient operating range.....	0 to +70	°C
Humidity.....	5 - 95	%
Sealing class.....	IP 66	

Vibration resistance

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

Ordering information

Art.No.:.....	BC-TK8iso-000

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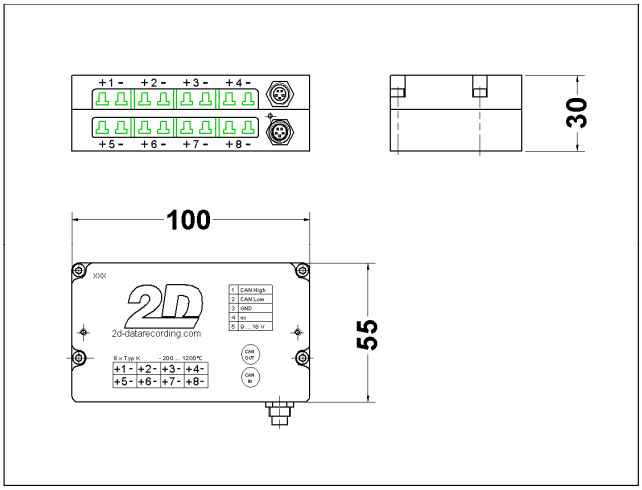
BC-TK8iso-000 — TypeK interface to CAN

Dimensions



Mounting advice

You can screw a unlimited number of single type K boxes together. Possibility to interconnect the boxes mechanically.

Connector layout

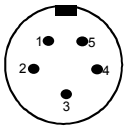
CAN-line (standard)

CAN-line Binder 712, 5pin

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

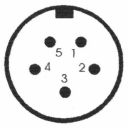
Connector type

CAN IN



Binder 712, 5 PM
(front side)

CAN OUT



Binder 712, 5 PF
(front side)

Analog (temperature type-K)

Temperature cable 2pin

Name		Description	Color (standard)		Color (alternative)	
+	-	Temperature cable +/-	red	green		
+	-	Temperature cable +/-			yellow	red
+	-	Temperature cable +/-			green	white
+	-	Temperature cable +/-			brown	blue
+	-	Temperature cable +/-			red	white
+	-	Temperature cable +/-			yellow	pink

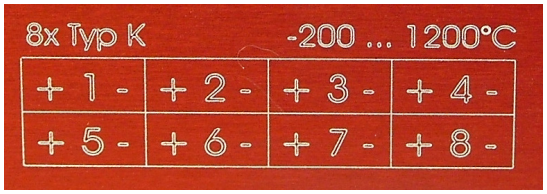
Plug at module

2 PF (front side)

Mating plug

2 PM

Connection allocation on the module



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