

BC-UNI_V2-XXX

Interface module



Binder 712 5PF



Binder 712 5PM



Deutsch IMC 200 12PF

Key Features:

- 2 CAN connections, 1 CAN line
- 8 analog input channels

Technical specifications

Electrical characteristics			Mechanical characteristics		
Supply voltage	V	8-16	Housing material		Aluminum
Current consumption @12 V			Dimensions	mm ³	57x50x14
Module only/no sensor	mA	75	Weight (module)	g	140
Full sensor load used	mA	350	Connector		
Sensor supply +5 V	mA	100	CAN connection 1		Binder 712, 5PM
Sensor supply +12 V	mA	100	Length	mm	250
Vext Out max	A	1	CAN connection 2		Binder 712, 5PF
Channels			Length	mm	250
Analog channels		8	Analog input		Deutsch IMC 200, 12PF
4k7 pull up switchable		2	Length	mm	500
Analog input filter			Vibration resistance		
Cut-off frequency (-3dB)	Hz	500	Shock	G	40
Damping (per decade)	dB	6	During time period of	ms	10
Environmental data			Vibration tested at	G	12
Protection class		IP 66	Measured with	Hz	1000
Ambient operating range	°C	0 to +70			
humidity	%	5 to 95			

Version properties

Ordering information	BC-UNI_V2-002	BC-UNI_V2-001	BC-UNI_V2-000
Analog resolution	10 bit	12 bit	16 bit
Max sampling rate	25 Hz	100 Hz	200 Hz
Digital channels input	AIN7, AIN8	2 free selectable	4 free selectable
Analog channel input range	0-5 V	AIN1-6: 0-5 V/0-20 V selectable AIN7-8: 0-5 V	AIN1-6: 0-5 V/0-20 V selectable AIN7-8: 0-5 V
Communication/Setup	Predefined setting No communication	Predefined setting No communication	Free programmable
4k7 pull up			AIN1, AIN2 switchable
CAN input/Calc channels	disabled	disabled	enabled

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CAN-ID	Byte 0	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7
0x700	Analog 1		Analog 2		Analog 3		Analog 4	
0x702	Analog 5		Analog 6		Analog 7		Analog 8	
0x704	Digital 01		Digital 02		Digital 03		Digital 04	

Please keep in mind when using digital input:

For calculating the “upper” and the “lower” trigger level keep in mind that the input signal is low pass filtered and the input signal will be reduced by 20 dB/decade referenced to its frequency!

All analog channels (AIN1...8) can be used as source for digital channels (Digital01...04).

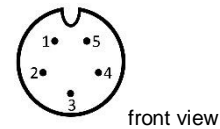
AIN1 and AIN2 have a switchable pull up; AIN3, AIN4, AIN5, AIN6, AIN7 and AIN8 have no pull up.

Connector layout

Connector type

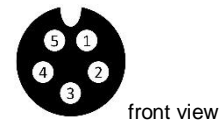
CAN connection 1, Binder 712 5PM

Pin	Name	Description	Color
1	CAN Hi	CAN High	orange
2	CAN Lo	CAN Low	brown
3	GND	Ground	black
4	n.c.	Not connected	
5	Vext	Power supply 8-16V	red



CAN connection 2, Binder 712 5PF

Pin	Name	Description	Color
1	CAN Hi	CAN High	orange
2	CAN Lo	CAN Low	brown
3	GND	Ground	black
4	n.c.	Not connected	
5	Vext	Power supply 8-16V	red



Power/Analog input, Deutsch IMC 200, 12PF

Pin	Name	Description	Color
1	Vext	Vext Sensor supply	red
2	AGND	Sensor ground	black
3	AIN1	Analog input 1, pull up switchable	brown
4	AIN2	Analog input 2, pull up switchable	orange
5	AIN3	Analog input 3	yellow
6	AIN4	Analog input 4	green
7	AIN5	Analog input 5	white
8	AIN6	Analog input 6	grey
9	AIN7	Analog input 7	white/black
10	AIN8	Analog input 8	white/brown
11	5 V	5 V power sensor supply	purple
12	12 V	12 V power sensor supply	blue

