

## IN-LSU\_EVO-000

## Interface module



### Key Features:

- To work in combination with LG-CANStick\_EVO-000
- 1 A/F input for use with 4.2 probe
- 2 CAN connections, 1 CAN line
- 1 external power supply for lambda-heating
- 8 analog input channels

### Technical specifications

<b>Electrical characteristics</b>			<b>Mechanical characteristics</b>		
Supply voltage	V	8-16	Housing material		Aluminum
Current consumption			Dimensions	mm <sup>3</sup>	57x50x14
@12 V idle	mA	75	Weight (module)	g	140
@12 V max	A	2.5	<b>Connector</b>		
Sensor supply +12 V	mA	100	CAN connection 1		Binder 712, 5PM
Sensor supply +5 V	mA	100	Length	mm	250
Vext Out max	A	1	CAN connection 2		Binder 712, 5PF
<b>Channels</b>			Length	mm	250
Analog channels		8	Lambda		Bosch 1 928 404 016, 6PF
4k7 pull up switchable		2	Length	mm	1000
Input voltage range	V	0-5	Analog input		Deutsch IMC 200, 12PF
A/F input channel			Length	mm	200
Resolution	A/F	0.01	External power supply		AMP Super Seal, 2PM
Sampling rate	Hz	100	Length	mm	500
<b>Environmental data</b>			<b>Vibration resistance</b>		
Protection class		IP 66	Shock	G	40
Ambient operating range	°C	0 to +70	During time period of	ms	10
humidity	%	5 to 95	Vibration tested at	G	12
			Measured with	Hz	1000
			<b>Ordering information</b>		
			Art.No. IN-LSU_EVO-000		

## IN-LSU\_EVO-000

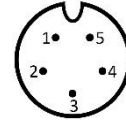
## Interface module

### Connector layout

### Connector type

#### CAN connection 1, Binder 712 5PM

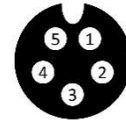
Pin	Name	Description	Color
1	CAN Hi	CAN High	orange
2	CAN Lo	CAN Low	brown
3	GND	Ground	black
4	n.c.	Not connected	
5	Vext/KL30	Power supply 8-16V	red



Front view

#### 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



Front view

#### LSU Probe, Bosch 6PF

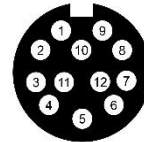
Pin	Name	Description	Color
1	IP	Inverting input current amplifier	black
2	UN	Inverting input current control	red
3	VM	Virtual ground current control	green
4	Heater-	Ground heater	brown
5	Heater+	Power heater	orange
6	IA	Non inverting input of pump current amplifier	yellow
	Shield	Shield	grey



front view

#### Analog input, Deutsch IMC 200, 12PF

Pin	Name	Description	Color
1	Vext Out	Power supply output	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	purple
10	AIN8	Analog input 8	blue
11	5 V	5 V power sensor supply	white/black
12	12 V	12 V power sensor supply	white/brown



front view

#### External power supply, AMP Super Seal, 2PM

Pin	Name	Description	Color
1	12 V	12 V power supply	red
2	GND	Ground	black

