

## IN-LSU\_KTM-330

## Interface module



### Key Features:

- To work in combination with LG-CANStickGPS2C-330
- 1 A/F input for use with 4.2 probe
- 2 CAN connections, 1 CAN line
- 1 external power supply for lambda-heating
- 4 analog input channels

### Technical specifications

<b>Electrical characteristics</b>			<b>Mechanical characteristics</b>		
Supply voltage	V	5-20	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	200	CAN connection 1	Binder 712, 5PM	
Sensor supply +5 V	mA	200	Length	mm	250
<b>Channels</b>			CAN connection 2	Binder 712, 5PF	
Analog channels		4	Length	mm	250
Without pull up		2	Lambda	Bosch 1 928 404 016, 6PF	
With 4k7 pull up		2	Length	mm	400
Input voltage range	V	12	3x Analog input	JST JWPF, 4PF	
A/F input channel			Length	mm	200
Resolution	A/F	0.01	1x Analog input	JST JWPF, 2PF	
Sampling rate	Hz	100	Length	mm	200
<b>Environmental data</b>			External power supply	AMP Super Seal, 2PM	
Protection class		IP 66	Length	mm	200
Ambient operating range	°C	0 to +70	<b>Vibration resistance</b>		
humidity	%	5 to 95	Shock	G	40
			During time period of	ms	10
			Vibration tested at	G	12
			Measured with	Hz	1000

### Ordering information

Art.No. IN-LSU\_KTM-330

## IN-LSU\_KTM-330

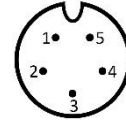
## Interface module

### Connector layout

### Connector type

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

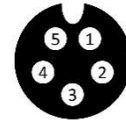
Pin	Name	Description	Color
1	CAN Hi	CAN High	White
2	CAN Lo	CAN Low	Green
3	GND	Ground	Black
4	n.c.	Not connected	
5	Vext/KL30	Power supply 8- 16V	Red



Front view

#### CAN connection 2, Binder 712 5PF

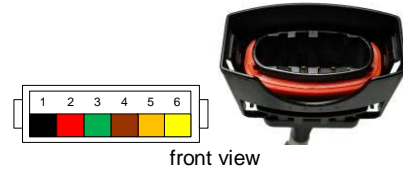
Pin	Name	Description	Color
1	CAN Hi	CAN High	White
2	CAN Lo	CAN Low	Green
3	GND	Ground	Black
4	n.c.	Not connected	
5	Vext	Power supply 8- 16V	Red



Front view

#### LSU Probe, Bosch 6PF

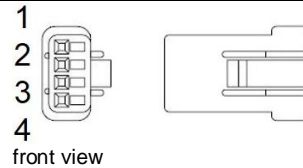
Pin	Name	Description	Color
1	IP	Inverting input current amplifier	Black
2	UN	Inverting input current control	Red
3	VM	Virtual ground current control	Green
4	Heater-	Ground heater	Brown
5	Heater+	Power heater	Orange
6	IA	Non inverting input of pump current amplifier	Yellow
	Shield	Shield	Grey



front view

#### Analog input (LAP), JST JWPF 4PF

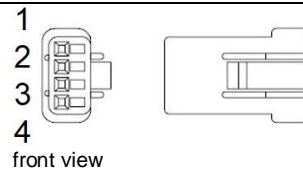
Pin	Name	Description	Color
1	GND	Ground	Black
2	A2 LAP	Signal LAP	White
3	n.c.	Not connected	
4	12 V	12 V power supply	Red



front view

#### Analog input (P\_Oil), JST JWPF 4PF

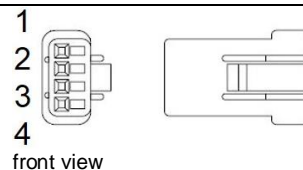
Pin	Name	Description	Color
1	GND	Ground	Brown
2	A5 P_Oil	Signal oil pressure	White/Brown
3	n.c.	Not connected	
4	12 V	12 V power supply	Orange



front view

#### Analog input (TK\_EX1), JST JWPF 4PF

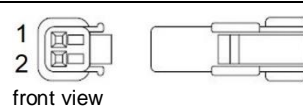
Pin	Name	Description	Color
1	GND	Ground	Blue
2	A6 TK_EX1	Signal exhaust temperature	White/Black
3	5 V	5 V power supply	Green
4	12 V	12 V power supply	Yellow



front view

#### Analog input (T\_Oil), JST JWPF 2PF

Pin	Name	Description	Color
1	GND	Ground	Purple
2	A1 T_Oil NTC	Signal oil temperature, NTC	Grey



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

