

SA-LSU4.2-000

Bosch LSU 4.2 lambda probe



Key Features

- High signal resolution and accuracy because of linear probe range
- Quick response time ≈ 50 Hz
- No temperature drift because of heater control
- Long operating life
- Measuring range λ 0.65 to ∞ (air) or 6 to 16 A/F
- Fast heating (ready for control ~ 30 s)

Technical specifications

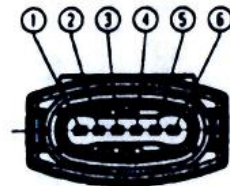
Electrical characteristics		Mechanical characteristics	
Probe supply voltage	V 12	Probe weight (w/o cable)	g 120
Operating exhaust gas temperature	$^{\circ}\text{C}$ 930	Probe length	mm 84
Maximum exhaust gas temperature	$^{\circ}\text{C}$ <1030	Thread	M18x1.5
A/F ration in combination with BC-LSU2CAN	A/F 6 to 16	Cable length (excl. probe)	mm 520
Heating power in combination with BC-LSU2CAN	A Max. 2	Wrench size	mm 22
Linear output (A/F ratio) from	6:1 to 16:1	Tightening torque	Nm 40...60
Heater control frequency	Hz <2		
Nominal resistance of Nernst cell	Ω 80		
Environmental data		Ordering information	
Storage temperature	$^{\circ}\text{C}$ -40 to +100	Art.No. SA-LSU4.2-000	
Max. vibration (stochastic peak)	G 100		

Connector layout

Connector type

Bosch connector

Pin	Name	Description	Color
1	IP	Inverting input current amplifier	Red
2	UN	Inverting input current control	Black
3	VM	Virtual ground current control	Yellow
4	Heater -	Ground for heater	White
5	Heater +	Power for heater	Grey
6	RT	Trim resistance	Green



Connector probe



Inside each probe connector is a specific trim resistor. Cutting off the connector without replacing this resistor will cause wrong measuring results. **DO NOT FORGET** to connect the resistor again if you have to replace the connector and/or keep the original plug in case of contacting 2D support.